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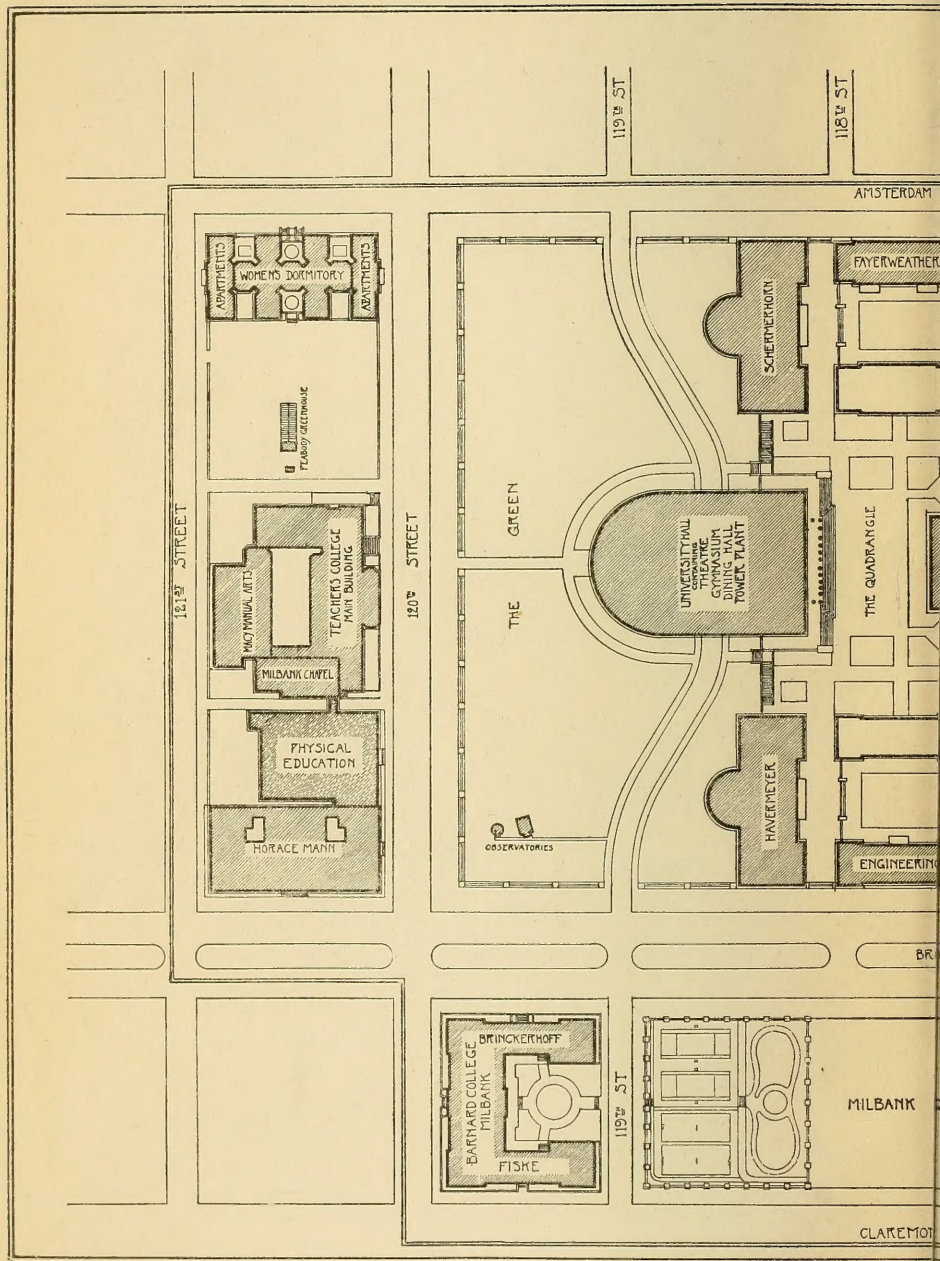


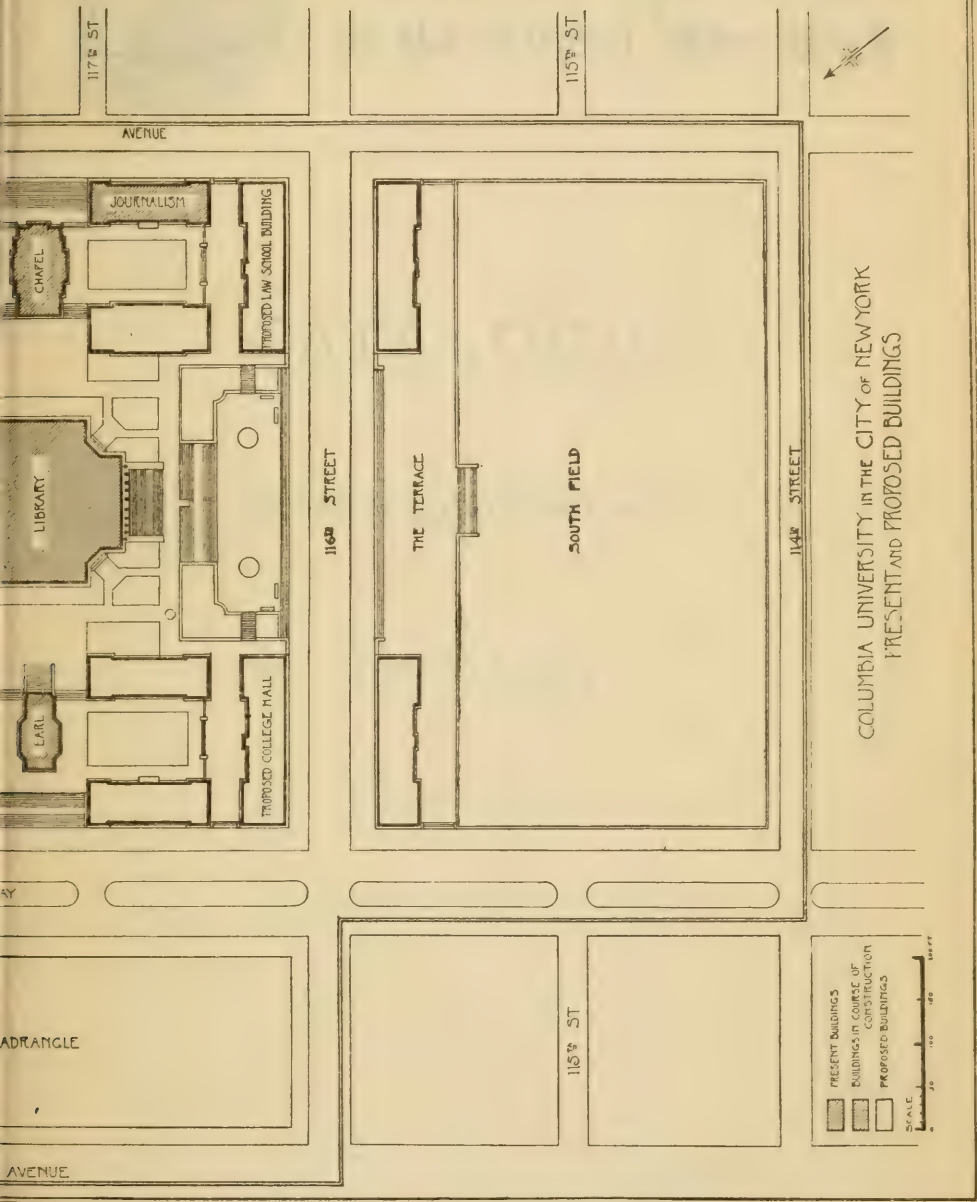
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MARY SCHENCK WOOLMAN....	Professor of Domestic Art in Teachers College
SAMUEL TRAIN DUTTON, M.A.....	Professor of School Administration in Teachers College
WILLIAM P. TRENT, M.A., LL.D.....	Professor of English Literature
MORTIMER LAMSON EARLE, Ph.D....	Professor of Classical Philology
HERBERT G. LORD, A.M.....	Professor of Philosophy
NELSON GLENN MCCREA, Ph.D.....	Professor of Latin
GONZALEZ LODGE, Ph.D., LL.D.....	Professor of Latin and Greek in Teachers College
CLARENCE H. YOUNG, Ph.D.....	Adjunct Professor of Greek
LIVINGSTON FARRAND, A.M., M.D.....	Professor of Anthropology
GEORGE FRANCIS SEVER.	Adjunct Professor of Electrical Engineering

<sup>1</sup> Absent on leave.



- JAMES MACLAY, Ph.D.....Adjunct Professor of Mathematics  
 EDMUND HOWD MILLER, Ph.D.....Adjunct Professor of Analytical  
 Chemistry  
 MARSTON TAYLOR BOGERT, A.B., Ph.B..Adjunct Professor of Organic  
 Chemistry  
 J. LIVINGSTON RUTGERS MORGAN, Ph.D.....Adjunct Professor of  
 Physical Chemistry  
 BENJAMIN DURYEA WOODWARD, Ph.D.....Professor of the Romance  
 Languages and Literatures  
 HENRY E. CRAMPTON, Ph.D.....Adjunct Professor of Zoölogy  
 EDWARD LEE THORNDIKE, Ph.D.....Adjunct Professor of Genetic  
 Psychology in Teachers College  
 CHARLES HUBERT FARNSWORTH.....Adjunct Professor of Music in  
 Teachers College  
 HENRY S. REDFIELD, LL.D.....Professor of Law  
 DAVID EUGENE SMITH, Ph.D...Professor of Mathematics in Teachers  
 College  
 THOMAS DENISON WOOD, M.D.....Professor of Physical Education  
 CHARLES T. TERRY, A.B., LL.B.....Professor of Law  
 WALTER B. JAMES, M.D.....Professor of the Practice of Medicine  
 WILLIAM J. GIES, M.S., Ph.D.....Adjunct Professor of Physiological  
 Chemistry  
 WILLIAM T. BREWSTER, A.M.....Adjunct Professor of English  
 GEORGE CLINTON DENSMORE ODELL, Ph.D.....Adjunct Professor  
 of English  
 CHARLES KNAPP, Ph.D.....Adjunct Professor of Classical Philology  
 L. EMMETT HOLT, M.D., LL.D...Professor of the Diseases of Children  
 AMADEUS W. GRABAU, S.M., S.D..Adjunct Professor of Palæontology  
 HENRY ROGERS SEAGER, Ph.D.....Adjunct Professor of Political  
 Economy  
 HENRY L. MOORE, Ph.D.....Adjunct Professor of Political Economy  
 JOHN DYNELEY PRINCE, Ph.D.....Professor of Semitic Languages  
 FREDERICK JAMES EUGENE WOODBRIDGE, LL.D.....Professor of  
 Philosophy  
 FRIEDRICH HIRTH, Ph.D.....Dean Lung Professor of Chinese  
 FELIX ADLER, Ph.D.....Professor of Social and Political Ethics  
 JULIUS SACHS, Ph.D...Professor of Secondary Education in Teachers  
 College  
 RALPH EDWARD MAYER, C.E.....Adjunct Professor of Mechanical  
 Drawing  
 IRA H. WOOLSON, E.M...Adjunct Professor of Mechanical Engineering  
 HERBERT MAULE RICHARDS, Sc.D.....Adjunct Professor of Botany  
 GARY N. CALKINS, Ph.D.....Adjunct Professor of Zoölogy  
 PHILIP HANSON HISS, Jr., M.D., Ph.D.....Adjunct Professor of Bac-  
 teriology  
 MARGARET E. MALTBY, Ph.D.....Adjunct Professor of Physics  
 in Barnard College

CASSIUS JACKSON KEYSER, Ph.D....Adjunct Professor of Mathematics  
HERSCHEL C. PARKER, Ph.B.....Adjunct Professor of Physics  
CHARLES AUGUSTUS STRONG, A.B.....Professor of Psychology  
HARLAN FISKE STONE, A.M., LL.B.....Adjunct Professor of Law  
MARSHALL H. SAVILLE....Loubat Professor of American Archæology  
GEORGE L. MEYLAN, M.D...Adjunct Professor of Physical Education  
and Medical Director of the Gymnasium  
ERNEST F. NICHOLS, Sc.D.....Professor of Experimental Physics  
† CHRISTIAN A. HERTER, M.D..Professor of Pharmacology and Thera-  
peutics  
JAMES B. SCOTT, A.M., J.U.D.....Professor of Law  
AMASA TROWBRIDGE, Ph.B.....Adjunct Professor of Mechanical  
Engineering  
ELIJAH WILLIAM BAGSTER-COLLINS, M.A.....Adjunct Professor of  
German in Teachers College  
LOUIS ROUILLION, M.A.....Adjunct Professor of Manual Training in  
Teachers College  
MAURICE A. BIGELOW, Ph.D.....Adjunct Professor of Biology in  
Teachers College  
FREDERICK H. SYKES, Ph.D...Director of the Extension Department  
in Teachers College  
JOSEPH A. BLAKE, M.D.....Professor of Surgery  
SAMUEL W. LAMBERT.....Professor of Applied Therapeutics  
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### Clinical Professors and Lecturers

CHARLES MCBURNEY, M.D. . . . . Professor of Clinical Surgery  
ROBERT F. WEIR, M.D. . . . . Professor of Clinical Surgery  
FRANCIS P. KINNICUTT, M.D. . . . . Professor of Clinical Medicine  
A. BRAYTON BALL, M.D. . . . . Professor of Clinical Medicine  
FRANK HARTLEY, M.D. . . . Professor of Clinical Surgery and Instructor  
in Operative Surgery  
FRANCIS H. MARKOE, M.D. . . . . Professor of Clinical Surgery  
GEORGE E. BREWER, M.D. . . . . Professor of Clinical Surgery  
JOHN S. THACHER, M.D. . . . . Professor of Clinical Medicine  
GEORGE M. LEFFERTS, M.D., M.Sc. . Clinical Professor of Laryngology  
and Rhinology  
GEORGE H. FOX, M.D. . . . . Clinical Professor of Diseases of the Skin  
ALBERT H. BUCK, M.D. . . . . Clinical Professor of Diseases of the Ear  
ROBERT W. TAYLOR, M.D. . Clinical Professor of Genito-Urinary Diseases  
VIRGIL P. GIBNEY, M.D., LL.D. . Clinical Professor of Orthopædic Surgery  
FREDERICK PETERSON, M.D. . . . . Clinical Professor of Psychiatry  
ANDREW J. MCCOSH, M.D. . . . . Clinical Lecturer in Surgery  
CHARLES T. POORE, M.D. . . . . Clinical Lecturer in Surgery  
ROBERT ABBE, M.D. . . . . Clinical Lecturer in Surgery  
WILLIAM B. COLEY, M.D. . . Clinical Lecturer and Instructor in Surgery  
ELLSWORTH ELIOT, Jr., M.D. . . . Clinical Lecturer and Demonstrator  
in Surgery

<sup>1</sup>Absent on leave.

## Instructors

*Note.*—For the Instructors and other Officers not of Professorial Grade in Teachers College and in the Summer Session, see the Table of Contents.

JAMES S. C. WELLS, Ph.D.....	Instructor in Analytical Chemistry
CHARLES A. HARRIMAN.....	Instructor in Architectural Drawing
GRENVILLE TEMPLE SNELLING, B.S.....	Instructor in Architectural Engineering
EUGENE HODENPYL, M.D.....	Instructor in Pathology
EDWARD LEAMING, M.D.....	Instructor in Photography
WILLIAM S. STONE, M.D.....	Chief of Clinic and Instructor in Gynecology
GEORGE R. LOCKWOOD, M.D.....	Instructor in Medical Diagnosis
WILLIAM K. DRAPER, M.D.....	Instructor in Medical Diagnosis
VAN HORNE NORRIE, M.D.....	Instructor in Physical Diagnosis
ROYAL WHITMAN, M.D..	Chief of Clinic and Instructor in Orthopædic Surgery
JAMES R. HAYDEN, M.D.....	Chief of Clinic and Instructor in Genito- Urinary Diseases
ROBERT LEWIS, JR., M.D....	Chief of Clinic and Instructor in Otology
HERMANN T. VULTÉ, Ph.D.....	Instructor in Chemistry
FRANK W. JACKSON, M.D.....	Instructor in Medical Diagnosis
GEORGE T. JACKSON, M.D.....	Chief of Clinic and Instructor in Dermatology
LUCIUS W. HOTCHKISS, M.D.....	Instructor in Surgery
CHARLES PRENTICE BENNS, M.E..	Instructor in Shop-work in Teachers College
WILLIAM K. SIMPSON, M.D.....	Chief of Clinic and Instructor in Laryngology
CHARLES NORTH DOWD, M.D.....	Instructor in Surgery
GEORGE MONTAGUE SWIFT, M.D.....	Instructor in Medicine
RICHARD FROTHINGHAM, M.D.....	Instructor in Laryngology
FRANCIS CARTER WOOD, M.D.....	Instructor in Clinical Pathology
CHARLES CONRAD SLEFFEL..	Instructor in Forging in Teachers College
CHARLES W. WEICK, B.S..	Instructor in Wood-working and Pattern- making in Teachers College
LEA McILVAINE LUQUER, Ph.D.....	Instructor in Mineralogy
LOUIS AUGUSTE LOISEAUX, B.S..	Instructor in the Romance Languages and Literatures
WILLIAM ADDISON HERVEY, A.M.....	Instructor in the Germanic Languages and Literatures
WALTON MARTIN, M.D.....	Instructor in Surgery
ALBERT E. SUMNER, M.D.....	Chief of Clinic and Instructor in Physical Diagnosis
E. MILTON FOOTE, M.D....	Chief of Clinic and Instructor in Surgery
CHARLES H. PECK, M.D....	Assistant Instructor in Operative Surgery
WARREN S. BICKHAM, M.D..	Assistant Instructor in Operative Surgery

ALFRED S. TAYLOR, M.D.	Assistant Instructor in Operative Surgery
JOSEPH C. PFISTER, A.M.	Instructor in Mechanics
<sup>1</sup> ADOLPH BLACK, C.E.	Instructor in Civil Engineering
EDWARD LAWRENCE KURTZ, E.M.	Instructor in Mining
HENRY CLAPP SHERMAN, Ph.D.	Instructor in Analytical Chemistry
PEARCE BAILEY, M.D.	Chief of Clinic and Instructor in Neurology
ARTHUR M. SHRADY, M.D.	Instructor in Physical Diagnosis
FREDERICK R. BAILEY, M.D.	Instructor in Normal Histology
WILLIAM ROBERT SHEPHERD, Ph.D.	Instructor in History
RUDOLF TOMBO, Jr., Ph.D.	Instructor in the Germanic Languages and Literatures
BRADLEY STOUGHTON, B.S.	Instructor in Metallurgy
RALPH WALDO LOBENSTINE, M.D.	Instructor in Obstetrics
RICHARD H. CUNNINGHAM, M.D.	Instructor in Electro-Physiology and in Neurology
HENRY WOOLFE BERG, M.D.	Instructor in Infectious Diseases
LINNAEUS EDFORD LA FETRA, M.D.	Chief of Clinic and Instructor in the Diseases of Children
RUSSELL BURTON-OPITZ, M.D.	Instructor in Physiology
CHARLES C. TROWBRIDGE, M.S.	Instructor in Physics
<sup>1</sup> FRANK LEO TUPTS, Ph.D.	Instructor in Physics
JAMES HOWARD MCGREGOR, Ph.D.	Instructor in Zoölogy
DANIEL JORDAN, B.S., Pd.B.	Instructor in the Romance Languages and Literatures
ARTHUR F. J. REMY, Ph.D.	Instructor in the Germanic Languages and Literatures
JAMES T. SHOTWELL, Ph.D.	Instructor in History
CHARLES EDWARD LUCKE, M.S., Ph.D.	Instructor in Mechanical Engineering
NORMAN E. DITMAN, M.D.	Instructor in Pathology
A. EMIL SCHMITT, M.D.	Assistant Instructor in Operative Surgery
WARD A. HOLDEN, M.D.	Chief of Clinic and Instructor in Ophthalmology
FRANK S. MATHEWS, M.D.	Instructor in Gynecology
FRANK R. OASTLER, M.D.	Instructor in Gynecology
HOWARD C. TAYLOR, M.D.	Instructor in Gynecology
HENRY H. TYSON, M.D.	Instructor in Ophthalmology
ALBERT P. WILLS, Ph.D.	Instructor in Mechanics
ROBERT SESSIONS WOODWORTH, Ph.D.	Instructor in Psychology
ALFRED H. GUMAER, B.S.	Instructor in Architectural Design
FORBES HAWKES, M.D.	Instructor in Surgery
SMITH ELY JELLIFFE, M.D.	Instructor in Materia Medica and Thera- peutics
CLARENCE A. MCWILLIAMS, M.D.	Instructor in Surgery
A. M. MILLER, A.M.	Instructor in Normal Histology
MYRON SAMUEL FALK, C.E., M.E.	Instructor in Civil Engineering
WILLIAM S. BRYANT, M.D.	Instructor in Otology



**Demonstrators**

- BERN B. GALLAUDET, M.D., Demonstrator of Anatomy and Instructor  
in Surgery
- HOWARD D. COLLINS, M.D., Assistant Demonstrator of Anatomy
- CHURCHILL CARMALT, M.D., Assistant Demonstrator of Anatomy
- ARTHUR SEYMOUR VOSBURGH, M.D., Assistant Demonstrator of  
Anatomy
- GEORGE PATTEN BIGGS, M.D., Demonstrator in Pathological Anatomy
- HENRY E. HALE, M.D., Assistant Demonstrator of Anatomy
- ADRIAN VAN SINDEREN LAMBERT, M.D., Assistant Demonstrator of  
Anatomy
- CARLETON P. FLINT, M.D., Assistant Demonstrator of Anatomy  
and Instructor in Minor Surgery
- EUGENE HILLHOUSE POOL, M.D., Ass't Demonstrator of Anatomy
- HAVEN EMERSON, M.D., Assistant Demonstrator of Physiology
- EDMUND L. DOW, M.D., Demonstrator in Pathological Anatomy and  
Tutor in Medicine
- WILLIAM DARRACH, M.D., Assistant Demonstrator of Anatomy
- LEANDER H. SHEARER, M.D., Assistant Demonstrator of Physiology
- GEORGE A. TUTTLE, M.D., Demonstrator in Pathological Anatomy
- ARTHUR WALKER BINGHAM, A.B., M.D., Assistant Demonstrator of  
Physiology

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**Tutors**

- LOUIS H. LAUDY, Ph.D., Tutor in General Chemistry
- CHARLES P. WARREN, A.M., Tutor in Architectural Construction
- CARLTON CLARENCE CURTIS, Ph.D., Tutor in Botany
- OLIVER S. STRONG, Ph.D., Tutor in Comparative Neurology and  
Assistant in Normal Histology
- SAMUEL A. TUCKER, Ph.B., Tutor in Industrial Chemistry
- RUDOLF TOMBO, Sr., Ph.D., Tutor in the Germanic Languages and  
Literatures
- LEONARD BEECHER MCWHOOD, A.B., Tutor in Music
- S. ALFRED MITCHELL, Ph.D., Tutor in Astronomy
- FITZHUGH TOWNSEND, A.B., E.E., Tutor in Electrical Engineering
- HENRY BEDINGER MITCHELL, A.M., Tutor in Mathematics
- JOEL ELIAS SPINGARN, Ph.D., Tutor in Comparative Literature
- GEORGE ARTHUR GOODELL, A.M., Tutor in Chemistry
- EDWARD KASNER, Ph.D., Tutor in Mathematics
- SAMUEL OSGOOD MILLER, C.E., Tutor in Drawing
- HENRY BARGY, A.M., Tutor in the Romance Languages and  
Literatures
- CAVALIER HARGRAVE JOÛET, Ph.D., Tutor in Analytical Chemistry
- GEORGE H. LING, Ph.D., Tutor in Mathematics
- DAVID BOVAIRD, M.D., Tutor in Medicine
- NATHANIEL B. POTTER, M.D., Tutor in Medicine
- FRED. P. SOLLEY, M.D., Tutor in Medicine



WILLIAM FINDLAY, Ph.D.....	Tutor in Mathematics
GEORGE BRAXTON PEGRAM, Ph.D.....	Tutor in Physics
GEORGE PHILIP KRAPP, Ph.D.....	Tutor in English
ADAM LEROY JONES, Ph.D.....	Tutor in Philosophy
EVAN M. EVANS, M.D.....	Tutor in Medicine
<sup>1</sup> WILHELM ALFRED BRAUN, Ph.D....	Tutor in the Germanic Languages and Literatures
ALFRED NEWTON RICHARDS, Ph.D..	Tutor in Physiological Chemistry
JOHN DRISCOLL FITZ-GERALD, II, A.B....	Tutor in the Romance Lan- guages and Literatures
THOMAS H. HARRINGTON, C.E.....	Tutor in Drawing
WILLIAM E. KELLICOTT, Ph.B.....	Tutor in Zoölogy
VICTOR J. CHAMBERS, Ph.D.....	Tutor in Organic Chemistry
EVERETT J. HALL.....	Tutor in Analytical Chemistry and Assaying
ALVIN S. JOHNSON, Ph.D.....	Tutor in Economics and Social Science
AUSTIN FLINT ROGERS, Ph.D.....	Tutor in Mineralogy
ALFRED HAYES, Jr., A.M., LL.B.....	Tutor in Law
CLAYTON MEEKER HAMILTON, A.M.....	Tutor in English
TRACY ELLIOT HAZEN, Ph.D.....	Tutor in Botany
ARTHUR COLON NEISH, A.M.....	Tutor in Chemistry
VIRGINIA C. GILDERSLEEVE, A.M..	Tutor in English in Barnard College
ABBOT M. CREGIER, Mech.E.....	Tutor in Drawing
GERTRUDE M. HIRST, Ph.D....	Tutor in Classical Philology in Barnard College
WILMON HENRY SHELDON, Ph.D.....	Tutor in Philosophy
CHARLES H. ELLARD, A.M.....	Tutor in Analytical Chemistry
HAL T. BEANS, A.M.....	Tutor in Analytical Chemistry
MYRICK N. BOLLES, Ph.D.....	Tutor in Metallurgy
BERGEN DAVIS, Ph.D.....	Tutor in Physics
CLIFFORD GRAY, E.E., A.M.....	Tutor in Mathematics
RICHARD THAYER HOLBROOK, Ph.D.....	Tutor in the Romance Lan- guages and Literatures
EDWARD A. HOOK, A.M.....	Tutor in Mathematics
JOHN D. KAPS, LL.B.....	Tutor in Law
WALTER A. BASTEDO, M.D....	Tutor in Materia Medica and Pharma- cology
CHARLES P. BERKEY, Ph.D.....	Tutor in Geology
ROSCOE GUERNSEY, Ph.D.....	Tutor in Greek
FANNIE C. FRISBIE, A.B.....	Tutor in Physics in Barnard College
WILLIAM ADAMS DELANO, A.B.....	Tutor in Design and Drawing
CHARLES M. HATHAWAY, Jr., Ph.D.....	Tutor in English
HENRI F. MULLER, B. ès L.....	Tutor in the Romance Languages and Literatures
BEN HINMAN BISBEE, C.E.....	Tutor in Civil Engineering

## Curators and Lecturers

MAXMILIAN K. KRESS, A.M.....	Curator and Lecturer in Architecture
ABRAHAM YOHANNAN, Ph.D.....	Lecturer in Oriental Languages
GEORGE JAMES BAYLES, Ph.D.....	Lecturer in Ecclesiology
GEORGE N. OLCOTT, Ph.D.....	Lecturer in Roman Archæology
GUSTAV HINRICHS.....	Conductor of Music
CURTIS HIDDEN PAGE, Ph.D.....	Lecturer in the Romance Languages and Literatures
ELEANOR KELLER, A.B.....	Lecturer in Inorganic Chemistry
ALEXIS A. JULIEN, Ph.D.....	Curator in Geology
FRANK WADLEIGH CHANDLER, Ph.D.....	Lecturer in Comparative Literature
RALPH CURTIS RINGWALT, A.B.....	Lecturer in Public Speaking
JAMES FARLEY MCCLELLAND, E.M.....	Lecturer in Mining
HEINRICH O. HOFMAN, Ph.D.....	Lecturer in Metallurgy
GEORGE W. BOTSFORD, Ph.D.....	Lecturer in Ancient History
ELSIE CLEWS PARSONS, Ph.D.....	Lecturer in Sociology
MORTON ARENDT, E.E.....	Lecturer in Electrical Engineering
CHARLES LANE POOR, Ph.D.....	Lecturer in Astronomy
ROLFE FLOYD, M.D.....	Lecturer in Anatomy
JAMES DITMARS VOORHEES, M.D.....	Lecturer in Obstetrics
WILLIAM S. DAY, Ph.D.....	Lecturer in Physics
FREDERICK W. J. HEUSER, A.M.....	Lecturer in the Germanic Languages and Literatures
ARNOLD H. KNAPP, M.D.....	Lecturer in Ophthalmology
FRANCIS C. HUNTINGTON, LL.B.....	Lecturer in Law
STEPHEN A. HURLBUT, A.M.....	Lecturer in Classical Philology
WILLIAM PEPPERRELL MONTAGUE, Ph.D.....	Lecturer in Philosophy
IDA HELEN OGILVIE, Ph.D.....	Lecturer in Geology
WILLIAM POPPER, Ph.D.....	Gustav Gottheil Lecturer in Semitic Languages
MARIE REIMER, A.B.....	Lecturer in Chemistry
JACKSON E. REYNOLDS, LL.B.....	Lecturer in Law
JOSEPH W. RICHARDS, Ph.D.....	Lecturer in Metallurgy
HOWARD R. STEWART, E.M.....	Lecturer in Mining
FRANCIS XAVIER CARMODY, A.B., LL.B.....	Lecturer in Elocution
ERNST RICHARD, Ph.D.....	Lecturer in German
CHARLES FORBES, M.D.....	Curator in Physics

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## Assistants

FLORA E. HARPHAM, A.M.....	Computer at the Observatory
D. STUART DODGE JESSUP, M.D.....	Assistant in Clinical Pathology
AUGUSTUS B. WADSWORTH, M.D.....	Ass't in Bacteriology and Hygiene
EMIL A. C. KEPPLER, A.M.....	Assistant in the Germanic Languages and Literatures
CHARLES E. BANKER, M.D.....	Assistant in Normal Histology
CHARLES SAVAGE FORBES, A.M.....	Assistant in Mathematics

WILLIAM C. UHLIG, Ph.B.....	Assistant in Chemistry
LINVILLE L. HENDREN, A.M.....	Assistant in Physics
CHARLES NORRIS, M.D.....	Assistant in Bacteriology and Hygiene
HENRY ASKEW JACKSON, B. S., A.M....	Assistant in Physical Chemistry
FRANCES CAMPBELL BERKELEY, A.B....	Assistant in English in Barnard College
CLAUDE RUSSELL FOUNTAIN, A.B.....	Assistant in Physics
ROBERT J. H. KLIENE.....	Assistant in Chinese
CHARLES P. WESTON, C.E., A.M.....	Assistant in Mechanics
ARTHUR S. CHITTENDEN, M.D.....	Assistant in Pathology
HOMER D. HOUSE, B.S.....	Assistant in Botany
ALLEN H. NELSON, A.M.....	Assistant in Physics
KARL A. CONNELL, M.D.....	Assistant in Normal Histology
ARTHUR SHERWOOD CORWIN, M.D....	Assistant in Normal Histology
JOHN CRAWFORD, Jr., B.S.....	Assistant in Mineralogy
FREDERICK VAN DYKE CRUSER, B.S.....	Assistant in Analytical Chemistry
PAULINE HAMILTON DEDERER, A.B.....	Assistant in Zoölogy
PERCY HUGHES, A.M.....	Assistant in Philosophy
ALICE A. KNOX, A.B.....	Assistant in Botany
JOHN B. LUTHER, Ph.G.....	Assistant in Analytical Chemistry
FRANK S. MEARA, Ph.D., M.D.....	Assistant in Materia Medica and Therapeutics
HENRY STUART PATTERSON, M.D.....	Assistant in Clinical Pathology
ANNINA PERIAM, A.M.....	Assistant in the Germanic Languages and Literatures
PHILIPP SEIBERTH, A.M....	Assistant in the Germanic Languages and Literatures
THOMAS O'CONOR SLOANE, Jr., E.E.....	Assistant in Electrical Engineering
CHARLES H. SMITH, M.D.....	Assistant in Normal Histology
JOHN FAIRFIELD THOMPSON, B.S.....	Assistant in Metallurgy
CARL M. VOGEL, M.D.....	Assistant in Pathology
CLARK WISSLER, Ph.D.....	Assistant in Anthropology
HELEN ISHAM, A.B.....	Assistant in Organic Chemistry in Barnard College
RICHARD WALTER BERLINER....	Assistant in Mechanical Engineering
ARMOUR CALDWELL, A.B.....	Assistant in English
FRANK G. BRUNER, A.B.....	Assistant in Psychology
WILLIAM JONES, A.M.....	Assistant in Anthropology
HENRY A. RUGER, A.B.....	Assistant in Psychology
PHILIP HYATT TARR, Ph.B.....	Assistant in Physics
EDWIN BENNETT WHEELER, B.S.....	Assistant in Physics
WILLIAM BRIAN HOOKER, A.B.....	Assistant in English
JOHN AUGUST SWENSON, A.B.....	Assistant in Mathematics
WILLIAM HENRY YATES, C.E.....	Assistant in Civil Engineering

## CLINICAL ASSISTANTS AT THE VANDERBILT CLINIC

Officers of instruction holding appointments in addition to that of Clinical Assistant, are not included in this list. A complete list of the Clinical Assistants in each subject will be found at the head of the appropriate Departmental Statement.

## In Medicine

T. STUART HART, M.D.	CHARLES S. FISCHER, M.D.
HUGHES DAYTON, M.D.	LEWIS F. FRISSELL, M.D.
JAMES A. MILLER, M.D.	LINSLEY R. WILLIAMS, M.D.

## In Surgery

F. R. COOK, M.D.	G. H. COCHRAN, M.D.
J. C. AYER, M.D.	E. T. MCKENZIE, M.D.
H. E. MEEKER, M.D.	LEWIS G. COLE, M.D.
H. H. PELTON, M.D.	A. C. PRENTICE, M.D.
ROWLAND COX, M.D.	MORRIS STARK, M.D.
JAMES H. KENYON, M.D.	W. W. SANFORD, M.D.
JOSEPH L. MCCARTHY, M.D.	

## In Orthopedic Surgery

* CHARLTON WALLACE, M.D.	DANIEL B. BRINSMADE, M.D.
CHARLES H. JAEGER, M.D.	NEWTON B. WALLER, M.D.
SHIRLEY E. SPRAGUE, M.D.	EDWARD J. PARISH, M.D.
CARL R. KEPPLER, M.D.	ARTHUR H. CILLEY, M.D.

## In Neurology

CHARLES E. ATWOOD, M.D.	E. L. HUNT, M.D.
B. E. KRYSTALL, M.D.	A. B. WRIGHT, M.D.
S. P. GOODHARDT, M.D.	L. P. CLARK, M.D.
L. M. GIBSON, M.D.	L. S. MANSON, M.D.
WALTER TIMME, M.D.	H. R. HUMPHRIES, M.D.
T. STUART HART, M.D.	THOMAS P. PROUT, M.D.
G. W. TODD, M.D.	

## In Gynecology

C. J. PROBEN, M.D.	GEORGE H. MALLETT, M.D.
WILLIAM L. BRADLEY, M.D.	WILLIAM P. HEALY, M.D.
GEORGE H. RYDER, M.D.	

\* Absent on leave.

**In Ophthalmology**

JOHN A. JACKSON, M.D.

ELLWOOD HARLOW, M.D.

**In Laryngology**

(Including Diseases of the Larynx, Pharynx, and Nasal Passages)

A. P. COLL, M.D.

JOHN LESHURE, M.D.

LEE M. HURD, M.D.

SAMUEL W. THURBER, M.D.

JOSEPH E. FULD, M.D.

PAUL F. SONDERN, M.D.

JONATHAN DWIGHT, Jr., M.D.

F. CONGER SMITH, M.D.

JOHN J. MCCOY, M.D.

C. D. VAN WAGENEN, M.D.

F. A. SCHNEIDER, M.D.

**In Otology**

MATHEW L. CARR, M.D.

ALFRED MICHAELIS, M.D.

JOHN D. RICHARDS, M.D.

**In Dermatology**

JOHN H. P. HODGSON, M.D.

CHARLES T. DADE, M.D.

JOHN ALDRICH, M.D.

S. DANA HUBBARD, M.D.

**In Diseases of Children**

LEWIS M. SILVER, M.D.

R. H. McCONNELL, M.D.

ALBERT F. BRUGMAN, M.D.

A. B. YARD, M.D.

BERNARD SOUR, M.D.

S. V. HAAS, M.D.

JOHN HOWLAND, M.D.

WILLIAM L. HARTMANN, M.D.

**In Genito-Urinary Diseases**

WILLIAM C. GILLEY, M.D.

WALTER D. TRENWITH, M.D.

EDMUND Y. HILL, M.D.

W. S. REYNOLDS, M.D.

WALTER B. BROUNER, M.D.

S. W. FOWLER, M.D.

(79)

JAMES R. WHITING, M.D.



**Emeritus Officers**

- EDWARD CURTIS, M.D.....Emeritus Professor of Materia Medica and  
Therapeutics
- JOHN D. QUACKENBOS, A.M., M.D.....Emeritus Professor of Rhetoric
- NATHANIEL LORD BRITTON, Ph.D.....Emeritus Professor of Botany
- JOHN ORDRONAU, M.D., LL.D.....Emeritus Professor of Medical  
Jurisprudence
- JAMES W. McLANE, M.D.....Emeritus Professor of Obstetrics
- GEORGE H. BAKER, A.M.....Librarian Emeritus
- FRANCIS DELAFIELD, M.D., LL.D..Emeritus Professor of the Practice  
of Medicine
- ABRAHAM JACOBI, M.D., LL.D..Emeritus Professor of the Diseases of  
Children
- HERMAN KNAPP, M.D.....Emeritus Professor of Ophthalmology
- WILLIAM R. WARE, LL.D.....Emeritus Professor of Architecture
- (10)

**Advisory Committee on Art**

CHARLES F. McKIM  
DANIEL C. FRENCH  
EDWIN H. BLASHFIELD

(3)



## **Columbia University in the City of New York**

### **GENERAL STATEMENT**

On October 31, 1754, during the reign of George II., His Majesty's Letters Patent under the Great Seal of the Province were issued, incorporating THE GOVERNORS OF THE COLLEGE OF THE PROVINCE OF NEW YORK IN THE CITY OF NEW YORK IN AMERICA, and providing for the establishment of a College to be known as "Kings College," "for the Instruction and Education of Youth in the Learned Languages and in the Liberal Arts and Sciences." The interpretation placed upon this clause of the charter, at the time, is shown by the original announcement of Kings College in 1754, which, in part, reads as follows: "Vth and Lastly, A serious, virtuous, and industrious Course of Life being first provided for, it is further the Design of this College, to instruct and perfect the Youth in the learned Languages, and in the Arts of Reasoning exactly, of Writing correctly, and Speaking eloquently: And in the Arts of Numbering and Measuring, of Surveying and Navigation, of Geography and History, of Husbandry, Commerce, and Government; and in the Knowledge of all Nature in the Heavens above us, and in the Air, Water, and Earth around us, and the various Kinds of Meteors, Stones, Mines and Minerals, Plants and Animals, and of every Thing useful for the Comfort, the Convenience, and Elegance of Life, in the chief Manufactures relating to any of these things: And finally, to lead them from the Study of Nature, to the Knowledge of themselves, and of the God of Nature, and their Duty to Him, themselves, and one another; and every Thing that can contribute to their true Happiness both here and hereafter."

The charter named as Governors the Archbishop of Canterbury, the Governor of the Province, certain officers of the Crown, ex-officio, the Rector of Trinity Church, and the Ministers of the Reformed Dutch, Lutheran, French, and Presbyterian Churches, for the time being, and twenty-four residents of the city. Under this charter, Kings College was founded, continuing to be known by that name until 1784. An additional charter was granted May 30, 1755, authorizing the appointment of a Professor of Divinity by the Reformed Protestant Dutch Church.

Upon the convening of the Legislature of the State of New York in

1784, an act was passed incorporating the "REGENTS OF THE UNIVERSITY OF THE STATE OF NEW YORK," and vesting the property of Kings College in the Regents. The act also changed the name of the College to Columbia College.

In 1787, this act was repealed, and a statute was passed enacting "that the Charter heretofore granted to the Governors of the College of the Province of New York in the City of New York in America, dated the thirty-first day of October, in the year of our Lord one thousand seven hundred and fifty-four, shall be and hereby is fully and absolutely ratified and confirmed, in all respects, except that the College thereby established shall be henceforth called Columbia College"; and "that the style of the said corporation shall be, The Trustees of Columbia College in the City of New York." Certain other amendments also were made in the charter to conform to the new conditions.

In 1810, the charter was again amended in certain particulars at the request of the Trustees, and re-enacted, but the corporate title remained and still continues unchanged. The title to all corporate property is vested in a board of twenty-four Trustees, whose term of office is for life, and who form a self-perpetuating body, exercising the power of appointment as to all officers of instruction and administration.

In 1896, the Trustees approved of the use of the title, Columbia University in the City of New York, to designate all the departments of instruction and research maintained and managed by the corporation, and in 1897 the work of the University was begun at Morningside Heights.

The President has charge of the educational administration of the University and is Chairman of the University Council and of every faculty established by the Trustees. The principal administrative officers, other than the President, are the Deans of the several faculties, the Secretary of the University, the Librarian, the Registrar, the Bursar, and the Superintendent of Buildings and Grounds.

The University Council is a representative body consisting of the President, the Dean, and the Secretary of the College, ex-officio, and the Dean and one elected member from each of the faculties of the University. Subject to the reserved power of control by the Trustees the University Council has charge of the general educational interests of the University and of all matters affecting more than one faculty.

## I. THE COLLEGES

*a.* COLUMBIA COLLEGE offers a course of four years, leading to the degree of Bachelor of Arts, conferred upon its graduates upon the recommendation of the Faculty of Columbia College. Candidates for admission to the College must be at least fifteen years of age, and pass an examination on prescribed subjects. The curriculum offers a wide range of electives, both literary and scientific, making it possible for the student to elect such courses during his first three years as will fit him either for the professional course he may intend to pur-

sue, or for advanced work under any of the non-professional faculties. During the senior year the student may study under the Faculties of Law, Medicine, or Applied Science.

*b.* BARNARD COLLEGE, founded in 1889, is an independent corporation whose grounds adjoin those of the University. As an undergraduate college for women, however, it bears the same relation <sup>1</sup> to the educational system of Columbia University as does Columbia College as an undergraduate college for men. The requirements for admission and the standard of scholarship are of the same grade. The students receive their instruction in the Barnard College buildings, except that for the time being members of the senior class may attend certain advanced courses in the University. The degree of Bachelor of Arts is conferred upon its graduates by the University upon the recommendation of the Faculty of Barnard College, of which the President of the University is, *ex-officio*, chairman.

## II. THE UNIVERSITY

In a technical sense, the Faculties of Law, Medicine, Philosophy, Political Science, Pure Science, and Applied Science, and the School of Architecture and Department of Music (temporarily set apart from the Faculties of Applied Science and Philosophy, respectively, pending the development in the University of a Faculty of Fine Arts), taken together constitute the University. These faculties offer advanced courses of study and investigation, respectively, in (*a*) private or municipal law, (*b*) medicine, (*c*) philosophy, education, philology, and letters, (*d*) history, economics, and public law, (*e*) mathematics and natural science, (*f*) applied science, and (*g*) architecture and music. These courses lead to the University degrees of Master of Arts and Doctor of Philosophy. The degree of Master of Laws is also conferred for advanced work in law done under the Faculties of Law and Political Science together.

### A. The Non-Professional Schools

THE FACULTY OF PHILOSOPHY offers advanced courses and opportunities for original research in philosophy and education (through Teachers College), psychology and anthropology, Greek and Latin (including archaeology and epigraphy), English, comparative literature, and the Germanic, the Romance, and the Oriental languages.

THE FACULTY OF POLITICAL SCIENCE offers advanced courses and opportunities for original research in political and social science, including history, economics, and public law.

THE FACULTY OF PURE SCIENCE offers advanced courses and opportunities for original research in mathematics, mechanics, and electro-mechanics, astronomy, physics, chemistry, mineralogy, geology,

<sup>1</sup> By virtue of the agreement between the Trustees of Columbia College in the City of New York and the Trustees of Barnard College, dated January 19, 1900.



zoölogy, botany, physiology, anatomy, bacteriology, and physiological chemistry.

THE FACULTY OF APPLIED SCIENCE offers advanced courses and opportunities for original research in mining, metallurgy, chemistry, and engineering (civil, electrical, mechanical, and sanitary).

In the School of Architecture and the Department of Music, students may pursue advanced courses, and are given opportunities for original research in these subjects.

### B. The Professional Schools

THE FACULTIES OF LAW, MEDICINE, AND APPLIED SCIENCE conduct, respectively, the professional schools of Law, Medicine, and Mines, Chemistry, and Engineering, to which students are admitted as candidates for professional degrees on terms prescribed by the faculties concerned.

THE SCHOOL OF LAW, established in 1858, offers a course of three years in the principles and practice of private and public law, leading to the degree of Bachelor of Laws.

THE COLLEGE OF PHYSICIANS AND SURGEONS, founded in 1807, offers a course of four years in the principles and practice of medicine and surgery, leading to the degree of Doctor of Medicine.

THE SCHOOL OF MINES, founded in 1863, offers courses of study, each of four years, leading to a professional degree, in mining engineering and in metallurgy.

THE SCHOOLS OF CHEMISTRY AND ENGINEERING, set off from the School of Mines in 1896, offer, respectively, courses of study, each of four years, leading to an appropriate professional degree in analytical, organic, and industrial chemistry; in civil, sanitary, electrical, and mechanical engineering.

THE SCHOOL OF ARCHITECTURE, set apart from the Faculty of Applied Science in 1902, offers a course of study of four years leading to the degree of Bachelor of Science in Architecture.

TEACHERS COLLEGE, founded in 1888 and chartered in 1889, was included in the University in 1898. It is still an independent corporation, its trustees continuing to assume the entire financial responsibility for its maintenance. It offers instruction in the History and Philosophy of Education and the Theory and Practice of Teaching, and takes academic rank in the University system as a professional school for teachers. It offers the following courses of study: (a) Graduate courses leading to the Doctor's diploma or to the Master's diploma; (b) Professional courses, each of two years, leading to the Bachelor's diploma for teachers and supervisors in kindergartens or elementary schools, or for specialists in Domestic Art, Domestic Science, Fine Arts, Manual Training, Music, and Physical Education; (c) a Collegiate course of two years which, if followed by a two years' professional course, leads to the degree of Bachelor of Science. Certain of its courses may be taken without extra charge by students of

the University in partial fulfilment of the requirements for the degrees of Bachelor of Arts, Master of Arts, and Doctor of Philosophy.

The Extension Department of the University is administered through Teachers College. It offers both regular and special courses of instruction at the College, or in local centres elsewhere; the regular courses may under certain conditions be credited towards University degrees and Teachers College diplomas.

A detailed announcement of the extension courses is issued annually, and may be had upon application to the Secretary of Teachers College.

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*By agreement with Mr. Joseph Pulitzer of New York, executed July 20, 1903, Columbia University will establish in the immediate future a School of Journalism, for which purpose Mr. Pulitzer has agreed to give to the University the sum of one million dollars. More detailed information will be contained in an announcement to be issued hereafter.*

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### Divisional Organization

With the exception of the professional courses in law and medicine, the several departments of the University are grouped together in divisions, as follows:

#### DIVISION OF BIOLOGY:

Departments of Anatomy, Bacteriology, Botany, Physiology, Physiological Chemistry, and Zoölogy.

#### DIVISION OF CHEMISTRY:

Departments of Chemistry and Physiological Chemistry.

#### DIVISION OF CLASSICAL PHILOLOGY:

Departments of Greek and Latin.

#### DIVISION OF EDUCATION (FACULTY OF TEACHERS COLLEGE)

#### DIVISION OF ENGINEERING:

Departments of Civil Engineering, Electrical Engineering, and Mechanical Engineering.

#### DIVISION OF FINE ARTS:

Departments of Architecture, Comparative Literature, Fine Arts, and Music.

#### DIVISION OF GEOLOGY, GEOGRAPHY, AND MINERALOGY:

Departments of Geology, Geography, and Mineralogy.

#### DIVISION OF HISTORY, ECONOMICS, and PUBLIC LAW (FACULTY OF POLITICAL SCIENCE):

Departments of Economics and Social Science, History, and Public Law and Jurisprudence.

#### DIVISION OF MATHEMATICAL AND PHYSICAL SCIENCE:

Departments of Astronomy, Mathematics, Mechanics, and Physics.

#### DIVISION OF MINING AND METALLURGY:

Departments of Metallurgy and Mining.



## DIVISION OF MODERN LANGUAGES AND LITERATURES:

Departments of Comparative Literature, English, Germanic Languages, and Romance Languages.

## DIVISION OF ORIENTAL LANGUAGES:

Departments of Chinese, Indo-Iranian Languages, and Semitic Languages.

## DIVISION OF PHILOSOPHY, PSYCHOLOGY, AND ANTHROPOLOGY:

Departments of Anthropology, Philosophy, and Psychology.

## DIVISION OF PHYSICAL EDUCATION:

Department of Physical Education.

The objects of the divisional organization are primarily to present clearly a summary statement of the equipment and the instruction offered in any given group of subjects by the entire University, including Barnard College and Teachers College; and to unify the work of each department of the University and secure the interest of each officer of instruction in the entire work of his department.

The Announcement of each division is issued in the form of a Bulletin of Information, and may be obtained without charge from the Secretary of the University.

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The division of the University into faculties and schools neither controls nor limits the student in his freedom of electing, under one or several of the faculties, courses that lead to the University degrees of Master of Arts and Doctor of Philosophy. For the degree of Master of Laws the choice of the student is restricted to subjects under the two Faculties of Law and Political Science. All of these degrees are granted upon the recommendation of the University Council.

The professional degrees are Bachelor of Laws, Doctor of Medicine, Bachelor of Science,<sup>1</sup> Engineer of Mines, Metallurgical Engineer, Civil Engineer, Electrical Engineer, and Mechanical Engineer. These degrees are conferred upon the recommendation of the Faculties of Law, Medicine, and Applied Science, respectively.

All Teachers College diplomas and the degree of Bachelor of Science in Education are conferred by the University upon the recommendation of the Faculty of Teachers College, of which the President of the University is, ex-officio, chairman.

No degrees are granted by the University for work done *in absentia*, and a minimum residence of one complete academic year (or in the case of the degree of Master of Arts attendance at four Summer Sessions) is required of each candidate for a degree.

## ADMISSION

### Entrance Examinations

(For information as to entrance examinations see Table of Contents.)

<sup>1</sup> The degree of Bachelor of Science in Architecture is for the present conferred upon the recommendation of the Department of Architecture.

### Admission of Women

None of the professional schools of the University corporation is open to women.

### Auditors

Certain courses of lectures are open to the public, men and women alike, on payment of an auditor's fee. Auditors will not be admitted to any course without the written consent of the instructor, previously obtained, which must be presented to the Registrar of the University and approved by him before attendance upon the courses is begun. Auditors do not have, and cannot receive, any University recognition whatever.

### REGISTRATION

No student is permitted to attend any academic exercise until he has complied with the regulations in regard to registration and fees.

Every student will be required, as a condition of admission to the College or to any School, to register on a blank prepared for the purpose, upon which he shall state his name, place of abode, and post-office address (if he be under twenty-one years of age, also the name, place of abode, and post-office address of his father or guardian), the courses which he is authorized to pursue, and such other information as may be from time to time required.

Students entering Barnard College should register and pay their fees at Barnard College. Information regarding fees, etc., will be found in the Announcement of Barnard College.

Students entering Teachers College should register and pay their fees at Teachers College. Information regarding fees, etc., will be found in the Announcement of Teachers College. Candidates for the A.M. or Ph.D. degree with Education as their major subject should register in Room 109, Library Building, but should pay their fees at Teachers College.

Students entering the College of Physicians and Surgeons should register and pay their fees at the offices of the Assistant Registrar and Assistant Bursar, College of Physicians and Surgeons, 437 West 59th Street.

All other students must register in person at the office of the Registrar, Room 109, Library Building, or at one of the registration centres assigned by him, and pay their fees to the Bursar, Room 108, Library Building. All students failing to register within the time limits fixed by the regulations of the University are allowed to register only by the payment of an additional fee of \$5.00. A circular concerning registration regulations may be obtained from the Registrar.

### Withdrawal

Students are requested, in case of withdrawal from the University during the academic year, to notify the Registrar in writing without delay. No application for a return of fees can be considered unless such notice be given.

### Academic Discipline

By the terms of the statutes of the University every student is subject to the disciplinary powers of the University authorities. The President is empowered to administer discipline in such cases as he deems proper, and to authorize the Deans of the several faculties to administer discipline in such manner and under such regulations as he may prescribe.

### FEES

The regulations of the Corporation of Columbia College in the City of New York in regard to fees are as follows:

*For Matriculation:* (The matriculation fee is required of all students entering the University, including the students of the Summer Session. The matriculation fee is payable but once). . . . . \$5

*For Tuition:*

For candidates for a degree:

In the College <sup>1</sup>	per annum	\$150
In the School of Law	" "	150
In the College of Physicians and Surgeons	" "	200
In the Schools of Applied Science and Architecture <sup>2</sup>	" "	200

For candidates for the degrees of Master of Arts and Doctor of Philosophy . . . . . 150

With a maximum fee of \$150 and \$300, respectively, when the course does not exceed, for the Master's degree, three, and for the Doctor's degree five years. Students paying by instalments may take only such courses as count toward the degree; any other courses must be paid for separately at the rates charged to special students.<sup>3</sup>

For students not candidates for a degree, at the rate of \$15 per annum for each hour of attendance a week on lectures or recitations, with a maximum fee of \$150, except that in the Schools of Medicine, Applied Science, and Architecture, and for all auditors, the rate is \$20 for each hour, with a maximum fee of \$200.

<sup>1</sup> Seniors taking the first year in the Medical School pay the fee required in that school, \$200. Juniors and Seniors electing courses in the Schools of Applied Science and Architecture are required to pay an extra fee for each course (see page 23) up to a maximum of \$50 per annum.

<sup>2</sup> For the fees required for the Summer Courses in Surveying and Mining see pages 25-26.

<sup>3</sup> If a student has paid tuition fees to the University as a candidate for A.M., and later registers as a candidate for Ph.D., the amount of such payment will be credited toward the maximum fee for the latter degree. The tuition fee paid at the Summer Session of any year by a candidate for a higher degree will be credited toward the maximum fee fixed for the degree for which he is a candidate; provided that the subjects pursued at the Summer Session are in line with his graduate work.

For all students in the Summer Session . . . . \$25

*For Examinations, payable in each case before the examination is held:*

<sup>1</sup> At unusual times . . . . .	\$ 5
For the degree of Bachelor of Arts . . . . .	15
For any professional or technical degree . . . . .	25
For the degree of Master of Arts . . . . .	25
For the degree of Master of Laws . . . . .	25
For the degree of Doctor of Philosophy . . . . .	35

*For Use of the Gymnasium:*

All men students registered for 8 hours or more a week except those of the College of Physicians and Surgeons are required to pay an annual gymnasium fee of . . . . . 7  
This entitles them to a locker and to the use of the Gymnasium and the baths, including all necessary laundry service.

**Fees for Students in the College Electing Subjects in Applied Science and Architecture**

Juniors and Seniors in Columbia College who are permitted by the Dean to elect courses in Applied Science and Architecture are required to pay an annual fee of \$150, payable by all candidates for the degree of A.B., and an additional fee for each course so taken up to a maximum tuition fee for such courses of \$50 a year. The additional fee for each course which may be so taken is as follows:

Architecture 1 . . . . .	\$15	Chemistry 12 . . . . .	\$50
" 5 . . . . .	10	" 9 . . . . .	50
" 8 . . . . .	10	" 17 . . . . .	45
" 91 . . . . .	30	" 24 . . . . .	15
" 93 . . . . .	10	" 26 . . . . .	20
" 10 . . . . .	10	" 27 . . . . .	10
" 15 . . . . .	10	Civil Engin. 1 . . . . .	
" 16 . . . . .	10	" " 2 . . . . .	10
" 2 or 3 . . . . .	25	" " 3 . . . . .	10
" 4 . . . . .	10	For the Summer Courses see page	
" 6 or 7 . . . . .	10	25	
" 11 . . . . .	10	Elec. Engin. 7 . . . . .	\$10
" 15 . . . . .	30	Geology 4 . . . . .	10
Chemistry 2 . . . . .	20	Mech. Engin. 2 . . . . .	10
" 10 . . . . .	10	" " 3 and 4 . . . . .	15
" 3 . . . . .	25	" " 5 . . . . .	25
" 11 . . . . .	30	" " 6 and 7 . . . . .	30

<sup>1</sup> In Columbia College and in the Schools of Law, Medicine, Applied Science, and Architecture, any examination other than those offered at the mid-year or final examination periods in a given course or courses will be held to be an examination at an "unusual time" and the statutory fee of \$5 will be charged therefor. A single fee of \$5 shall cover any single series of examinations which a student by a single certificate of the appropriate administrative officer is authorized to take.



Mech. Engin.	8.....	\$25	Mineralogy	5.....	\$10
" "	103-104.....	15	"	6.....	10
" "	110.....	10	"	8.....	10
" "	11.....	10	"	12.....	25
" "	36 or 37.....	1			

### Laboratory Fees for Special Students

Students who are not candidates for a degree shall be charged a fee for laboratory courses and for the use of laboratories in accordance with the following schedule:

DEPARTMENT	UNIT OF TIME	RATE
Anatomy	Year	Per course: \$10 for Courses 5, 6, 10, 11, 13, 14, 17-29. \$5 for Courses 12, 15, 16
Architecture	Year	\$25 for use of draughting room only
	Two months	\$10 for the same privilege
Botany	Year	\$10 for use of laboratories by students not candidates for a degree
Chemistry	Year	\$50 for use of laboratories, or any of them
Engineering: Civil	Two weeks	Course 11. Cement Testing laboratory, \$15
	One month	Course 5. Laboratory for testing materials, \$30
Electrical	Year	Course 11, \$50; Course 10 or 12, \$40; Course 5 (laboratory portion) or 27, \$15; Course 28, \$10
Mechanical	Year	\$50 for use, by non-candidates, of laboratories, or any of them
Geology		Recommendation that no fees be charged
Metallurgy	Year	Per course: \$100 for Courses 6, 9, 10, 14, 15. \$75 for Course 8. \$50 for Courses 11, 12, 13, 16, 17, 18, 19. \$25 for Course 6a. \$20 for Course 7
Mining	Year	Course 5, \$50 Course 8, \$25 for use of draughting room only and laboratory instruction therein
Pathology: Pathology	Month	Course 2, \$25 Course 3, \$15 Course 4, \$25
Clinical Pathology		Course 1, \$15 Course 2, \$25
Bacteri- ology and Hygiene		Course 1, \$15 Course 2, \$35 Course 3, \$25
Normal Histology		Course 1, \$25 Course 2, \$15 Course 3, \$25



DEPARTMENT	UNIT OF TIME	RATE
Physics	Year	\$25 for use of laboratories by those not taking other instruction from department; \$5 for special students taking other than undergraduate lecture courses
Physiological Chemistry	Year	\$25 per course
Physiology	Year	Course 2, \$15 Course 4, \$15
Psychology		Recommendation that no fees be charged
Zoölogy	Year	\$25 for 1 day per week; each additional day, \$15
	Half-year	\$15 for 1 day per week; each additional day, \$7.50

### Laboratory and Tuition Fees for the Summer Courses in Surveying

The following fees are required of all students:

Civil Engineering	Five weeks	Course 15, \$25, or \$7 per survey for students with advanced standing
	Five weeks	Course 16, \$15, or \$5 per survey for students with advanced standing
	Two weeks	Course 16a, \$5
	Four weeks	Course 17, \$10

In addition to the above laboratory fees, all students not candidates for a degree, all candidates for admission with advanced standing to the Schools of Applied Science, and all students who, having previously entered with advanced standing, may be required subsequently to attend any of these courses, must pay therefor tuition fees as follows:

Civil Engineering,	15	.	.	.	.	.	.	\$35
"	"	16	.	.	.	.	.	25
"	"	16a	.	.	.	.	.	10
"	"	17	.	.	.	.	.	25

This regulation applies also to students registered in the College who pursue these courses, with the provision that any such student who later completes one of the regular courses in Applied Science will have credited to his account at graduation the difference, if any, between the fees actually paid by him and the fees which would have been charged had he been registered in the Schools of Applied Science throughout the regular four-year course.

The regulations provide further that every student registered in Applied Science (including special students) who fails to attend and complete any one of these courses regularly with his class will be permitted to attend such course at a later time only upon payment of the above specified fee.

For further details as to the administration of these fees, see the special *Announcement of the Summer Courses in Surveying*.

### Fee for the Summer Course in Mining

Candidates for admission to advanced standing who attend the Summer Course in Practical Mining are required to pay therefor a fee of \$50.

### Payment of Fees

The matriculation fee shall be paid before entrance if not covered by the entrance examination fee. Examination fees shall be paid in all cases before examination. Every student failing to register within the limits of time fixed by the regulations of the University shall be allowed to register only upon the payment of an additional fee of \$5.

Annual tuition fees (see p. 22) shall be paid in equal instalments on or before the second Saturday in October, and on or before the third Saturday in February in each academic year, except that whenever the total amount of a student's tuition fees shall not exceed one hundred dollars, the full amount shall be paid on or before the second Saturday in October. Tuition and laboratory fees for the Summer Courses in Surveying shall be paid on or before the last Saturday in May.

### Deposits for Apparatus Supplies and for Keys to Desks and Lockers

A deposit for the use of apparatus, material, and the like shall be charged when prescribed by the head of the department supplying the same, with the approval of the President and Treasurer.

The University undertakes, on account of the following deposits, to lend apparatus and keys to regular students in the following courses in the Schools of Applied Science:

	Mining Engineering	Civil Engineering	Sanitary Engineering	Electrical Engineering	Mechanical Engineering	Metallurgy	Chemistry	Archite- ture
First Class.....	\$20	\$20	\$20	\$20	\$20	\$20	\$20	\$1
Second " .....	40	10	10	40	10	40	40	1
Third " .....	40	10	10	10	10	40	40	1
Fourth " .....	1	1	1	10	10	40	40	1

For details in regard to laboratory and other work covered by the above deposits, see the departmental circulars. The deposit of \$1 as above entitles the student to receive the required key to a drawing-room desk or to a laboratory desk or table.

For other students, pursuing the following subjects, extra deposits are required as follows:

Chemistry 5 (Physical Chemistry).....	\$10
" 6 (General Chemistry, College).....	20
" 7 (Qualitative Analysis).....	20

Chemistry 9, 11, 12, or 13 (Quantitative Analysis).....	\$40
"    17 (Assaying).....	40
"    26 or 27 (Industrial Chemistry).....	40
"    30 or 33 (Organic Analysis).....	40
Mineralogy 6 (Optical Mineralogy).....	10

A deposit of \$10 or more, as above, entitles the student to draw all required keys, including a key to a hat locker.

A student, receiving a key to a hat locker or to a drawer in the Seminar Room, not making a deposit of at least \$10, will be required to make a deposit of \$1 for each such key desired.

Each student shall be entitled, on presenting his receipt at the apparatus room, to draw the regular set of apparatus which will be charged to him. At the end of the year he will be credited with those articles which he returns in good order, and the value of those he has injured or broken will be deducted from his deposit.

Students who furnish their own apparatus are required to make a deposit of \$10 to cover the use of reagent bottles, keys, etc.

### Miscellaneous Regulations

The amount of fees to be paid in special cases for partial attendance shall be determined by the President and Treasurer.

Students who have taken the degree of Doctor of Philosophy in this University may, with the consent of the University Council, continue their researches in the laboratories or Library of the University without the payment of tuition fees.

No candidate for a degree in any school shall be entitled to receive the same until he shall have discharged all his dues to the University.

### Comparative Statement of Students' Expenses for the Academic Year, October to June

BASED ON STUDENTS' STATEMENTS

	Low	Average	Liberal
Matriculation Fee (First Year).....	\$ 5	\$ 5	\$ 5
Tuition Fee <sup>1</sup> .....	150	150	150
Gymnasium Fee.....	7	7	7
Books.....	18	30	40 up
College Incidentals.....	7	15	33
Room (37 weeks).....	77	112	160 "
Board (37 weeks).....	139	174	213 "
Clothes and Washing.....	46	75	125 "
All other expenses.....	24	48	100 "
Total.....	\$473	\$616	\$833 up

<sup>1</sup> For Medicine, Applied Science, and Architecture add \$50.

## COMMITTEE ON EMPLOYMENT FOR STUDENTS

JAMES F. KEMP.....	<i>Faculty of Pure Science, Chairman</i>
THOMAS S. FISKE.....	<i>Faculty of the College</i>
GEORGE S. HUNTINGTON.....	<i>Faculty of Medicine</i>
FRANCIS M. BURDICK.....	<i>Faculty of Law</i>
FREDERICK R. HUTTON.....	<i>Faculty of Applied Science</i>
FRANKLIN H. GIDDINGS.....	<i>Faculty of Political Science</i>
HENRY A. TODD.....	<i>Faculty of Philosophy</i>
F. P. KEPPEL.....	<i>Secretary of the University</i>
RUDOLF TOMBO, Jr.....	<i>Registrar of the University</i>
HOWARD RICHARDS, Jr.....	<i>Secretary of Earl Hall</i>
REUBEN A. MEYERS.....	<i>Secretary of the Committee</i>

It is the design of the Committee to put students desiring to work their way through college, especially those coming from elsewhere than New York or the immediate vicinity, in the way of earning enough for their partial or complete support, or if possible to extend assistance to them in other ways, while they are pursuing their studies here. It is believed that many opportunities may be offered to students of this class if the fact of their desire to obtain employment is made known. Some of the openings likely to be available are: private tutoring, translating, copying of various sorts, teaching in evening schools, travelling companions, stenography, and typewriting. Communications should be addressed to the Committee.

As the result of long experience, the Employment Committee advises Medical and Engineering Students not to undertake outside work of any kind during the academic year. The demands of these courses in lectures and laboratory work are so exacting and inflexible as to make additional responsibilities a greater burden than can be wisely assumed. It would even be better for such students to withdraw from the University for a year in order to earn the money necessary to enable them to give undivided attention to their work while in attendance.

While much work is found for students each year, preference is naturally given, in case of a choice of applicants for a position, to those who have spent at least a portion of a year at Columbia, and thus have become personally known to members of this Committee or to other officers. No prospective student should come to Columbia depending entirely or even largely upon the assistance of the Committee, but should be prepared to meet at least the expenses of the first half-year—say two hundred and fifty dollars.

All the heads of clinics in the Medical School have consented to give advice without charge to students who are on the lists of the Committee, and who present cards of introduction from one of its members. Such visitors are received, as a general rule, during office hours at private offices. This insures to students who need it the best medical advice in the city.



## APPOINTMENT COMMITTEES

The duty of these Committees is to recommend graduates of the College or University for teaching or other positions in colleges and universities and to assist competent graduates to obtain such positions.

The Committees keep classified lists of those who wish employment and will be glad to be informed promptly of present or prospective vacancies in positions for which college-trained men or women are eligible.

No fees are charged for any service rendered by either Committee.

## University Appointment Committee

For positions in colleges and universities, except in the Department of Education

JAMES HULME CANFIELD.....	<i>Librarian of the University, Chairman</i>
FREDERICK R. HUTTON.....	<i>Professor of Mechanical Engineering</i>
EDWIN R. A. SELIGMAN...	<i>Professor of Political Economy and Finance</i>
JAMES McKEEN CATTELL.....	<i>Professor of Psychology</i>
HENRY ALFRED TODD.....	<i>Professor of Romance Philology</i>
GEORGE W. KIRCHWEY.....	<i>Professor of Law</i>
GEORGE RICE CARPENTER.	<i>Professor of Rhetoric and English Composition</i>
JAMES RIGNALL WHEELER.....	<i>Professor of Greek</i>
CALVIN THOMAS.....	<i>Gebhard Professor of the Germanic Languages and Literatures</i>

Communications in regard to vacancies and recommendations of suitable candidates for the same should be addressed to the Chairman, Library, Columbia University, New York.

## University Appointment Committee

For college and university positions in Education, and for Administrative, Supervisory, and Teaching positions in Normal, Secondary, and Elementary Schools and Kindergartens.

JAMES E. RUSSELL.....	<i>Dean of Teachers College, Chairman</i>
SAMUEL T. DUTTON.....	<i>Professor of School Administration</i>
JAMES F. KEMP.....	<i>Professor of Geology</i>
FRANK M. McMURRY.....	<i>Professor of Elementary Education</i>
DAVID EUGENE SMITH.....	<i>Professor of Mathematics</i>
WILLIAM P. TRENT.....	<i>Professor of English Literature</i>

Communications should be addressed to the Chairman of the Committee, or to its secretary, Miss I. L. Pratt, Teachers College, Columbia University, New York.

## Committee on Social Settlements and Allied Work

The object of this Committee is to serve as a medium of communication between the students and the several settlements and allied organizations. It supervises the courses given under the auspices of the University, destined for settlement workers and for students inter-



ested in settlement work. It posts on the bulletin notices affecting the settlements that are of interest to students. It recommends to the settlements such students as are qualified to enter upon the work. It supervises the fellowships and scholarships that are granted to the settlements so far as the incumbents desire, or are obligated, to study at the University. The committee is composed as follows:

EDWIN R. A. SELIGMAN.....	<i>Professor of Political Economy and Finance,</i> <i>Chairman</i>
FRANKLIN H. GIDDINGS.....	<i>Professor of Sociology</i>
FREDERICK J. E. WOODBRIDGE.....	<i>Professor of Philosophy</i>
FELIX ADLER.....	<i>Professor of Social and Political Ethics</i>
JAMES H. CANFIELD.....	<i>Librarian of the University</i>
MISS LAURA D. GILL.....	<i>Dean of Barnard College</i>
FRANK M. McMURRY.....	<i>Professor of the Theory and Practice of Teaching</i>
MRS. ELSIE CLEWS PARSONS.....	<i>Lecturer in Sociology</i>
WM. ADAMS BROWN.....	<i>Union Theological Seminary</i>
HOWARD RICHARDS, Jr.....	<i>Secretary of Earl Hall, Secretary</i>
JOHN B. ELLIOTT.....	<i>Representing the Union of Settlement Workers</i>

## FELLOWSHIPS, SCHOLARSHIPS, AND OTHER PROVISION FOR THE ASSISTANCE AND REWARD OF STUDENTS

**NOTE.**—Unless otherwise provided, all stipends of Fellows and Scholars shall be paid in equal semi-annual instalments on the last Saturday in October and the third Saturday in February of each year. Before being entitled to receive either instalment of his stipend each Fellow and Scholar is required to report himself in writing to the Registrar as in residence, on or before the second Wednesday in October and February of the year of his incumbency, in 1903-04, October 14 and February 10.

Fellows and Scholars are required to pay all fees for matriculation, tuition, graduation, and for the use of the Gymnasium. The provisions regarding the maximum fee for the higher degrees, and the crediting thereto of fees paid in the Summer Session, do not apply to them.

### General Fellowship Regulations

No Fellow shall be allowed to accept remunerative employment except by permission of the President, and the acceptance of any such employment, without such permission, shall operate to vacate the fellowship.

All Fellows, except as hereinbefore provided, shall be required to pursue their studies during the term of their fellowship at the University, unless permission be granted by the President to study elsewhere.

In order that all documents, submitted in support of a fellowship, may be referred to the proper authorities when they reach the University, the envelopes or packages containing such should be distinctly marked, "Submitted by ——— in support of a fellowship in Columbia University." As the sending of graduation diplomas through the mails entails considerable danger that the diploma may be lost or injured, it is suggested that original diplomas should not be sent in support of applications.

## UNIVERSITY FELLOWSHIPS

Eighteen fellowships, of the value of \$650 each, known as "University Fellowships," are awarded by the Council to those applicants who give evidence of special fitness to pursue courses of higher study and original investigation, the competition to be open to graduates of all colleges and scientific schools. Vacancies occurring in any such fellowships shall be filled in the same manner in which original appointments are made.

Additional University Fellows may be appointed in cases where the original appointee waives the emolument of the fellowship while accepting the honor of the appointment, and in cases where a University Fellow desires reappointment without emolument.

Application should be made prior to March 1, in writing, on blanks that will be furnished for the purpose, and addressed to the President of Columbia University. Applications received later than March 1, or not distinctly marked with the name of the candidate, may fail of consideration. The term of the fellowship is one year, dating from July 1. Residence should begin with the opening of the academic year.

The candidate must give evidence:

- (a) of a liberal education, such as a diploma already granted, or about to be received from a college or scientific school of good repute;
- (b) of decided fitness for a special line of study, such as an example of some scientific or literary work already performed;
- (c) of upright character, such as a testimonial from some instructor.

Every holder of a fellowship will be expected to perform such duties as may be allotted to him in connection with his course of study, which course shall be such as to lead to the degree of Doctor of Philosophy. He will be expected to devote his time to the prosecution of special studies under the direction of the head of the department to which he belongs, and before the close of the academic year to give evidence of progress by the preparation of a thesis, the completion of a research, the delivery of a lecture, or by some other method. He must reside in New York or vicinity during the academic year.

No holder of a fellowship will be permitted to pursue a professional or technical course of study during his term. With the written approval of the President, but not otherwise, he may give instruction or assistance in any department of the University.

A Fellow may be reappointed at the end of a year for reasons of weight. No Fellow may be reappointed for more than two terms of one year each.

As these fellowships are awarded as honors, those who are disposed, for the benefit of others or for any other reason, to waive the pecuniary emolument, may do so, and still have their names retained on the list of Fellows.

## SPECIAL FELLOWSHIPS

Unless otherwise specified, the regulations as to the mode of application for the following fellowships, and the conditions governing their

award and tenure, are the same as those for University Fellowships (see ante). Candidates should indicate clearly upon their application blanks the fellowship for which they are applicants.

#### TYNDALL AND BARNARD FELLOWSHIPS

The Tyndall Fellowship for the Encouragement of Research in Physics, endowed by Professor John Tyndall, and of an annual value of \$648, and the Barnard Fellowship for Encouraging Scientific Research, endowed by the bequest of the late President Barnard, annual value \$500, are awarded annually by the University Council under the following conditions: The Tyndall Fellowship is available for one or more American pupils who may have shown decided talent in physics, and preferably such as shall express the determination to devote their lives to the advancement of theoretic science and original investigations in that department of learning, and is awarded either to a graduate of the University or to a student in it (not necessarily a candidate for a degree) upon the recommendation of the head of the department of Physics. The Barnard Fellowship is awarded upon the joint recommendation of the Faculties of Columbia College, Applied Science, and Pure Science to a graduate of any one of them who, having shown decided aptness for physical investigation, is disposed to devote himself thereto for some years continuously. The recommendation must in each case be made to the President on or before April 1. The appointment is for the term of one year, but the incumbent shall be eligible to reappointment.

It is the duty of a John Tyndall or Barnard Fellow to devote himself faithfully to the investigation of some subject in physical science at this University, or at some other in this country or abroad, under the supervision of some known physicist approved by the President and the head of the department of Physics. He shall make a report, certified to by the physicist superintending and directing him, quarterly to the President, giving an account of the work in which he has been engaged during the three months preceding.

#### CLASS OF '70 FELLOWSHIP

There is a fellowship known as the "Class of '70 Fellowship," of the annual value of \$500, which, after the expiration of the term of the present incumbent, shall be filled by the Council, and shall be subject to such rules and regulations, not inconsistent with the Statutes, as may be prescribed by the Council.

#### GEORGE WILLIAM CURTIS FELLOWSHIP

The George William Curtis Fellowship is awarded by the Council upon the recommendation of the Faculty of Political Science in every third year, the next award being July 1, 1904. The appointment shall be held for two years, subject to such regulations as the Council shall from time to time establish. Any person holding such fellow-



ship for the full term of two years shall be entitled to receive during his incumbency the net income of the endowment of \$10,000 (in 1902-03, \$400 annually), accruing during a period of three years, and proportionately for any part of the term.

Candidates shall submit an essay or address on the "Immediate Duty of the American Citizen," in addition to complying with the requirements of candidates for University fellowships.

The holder shall devote himself to the study of the science of government, with a special view to its application to the then existing condition of the United States or to the State or City of New York; and at or before the conclusion of his second year he shall publish a monograph satisfactory to the Faculty of Political Science on some subject relating thereto. He shall also prepare and publish a brief sketch of George William Curtis as a citizen and orator, showing that he has familiarized himself with the life and character of the man whose memory is to be perpetuated by the fellowship which he has enjoyed.

#### DRISLER FELLOWSHIP

The Henry Drisler Fellowship in Classical Philology, established in 1894 in commemoration of the semi-centennial in the service of the University of Professor Henry Drisler, A.B., 1839, is of the annual value of \$650, and is open to Bachelors of Arts of this University, or some other institution of equivalent standing, who have studied Greek and Latin throughout their undergraduate course, and who have an adequate knowledge of French and German. They must present testimonials from their instructors in Greek and Latin as to the quality of their work, and give evidence of fitness for advanced study and research, either by a special examination, or by an essay embodying the results of research in some department of classical study. Applicants must present a certificate of good moral character.

The appointment is made by the University Council on the joint recommendation of the professors of Greek and Latin. Recommendations should reach the President on or before April 1, and reappointments may be made for not more than two terms of one year each.

The Fellow must study at this University under the direction of the professors of Greek and Latin, unless permitted by the Council to spend a year in some foreign university, or in the American School of Classical Studies at Athens, or in the American School of Classical Studies in Rome.

#### INTERNATIONAL FELLOWSHIPS FOR STUDY IN FRANCE

These fellowships, two in number, with a stipend of \$800 each, are awarded in the same manner as are the other University Fellowships. Satisfactory evidence of the candidate's proficiency in French must be given; and, other things being equal, preference shall be given to those whose knowledge is such as to enable them thoroughly to understand

the lectures delivered in the French universities. The appointment will be made for one year. Reappointments will be made only for reasons of weight.

The holder of an International Fellowship may select such a course of study as he shall prefer, and may also choose the place of his residence while in France; provided, however, that when not pursuing original investigations in other parts of the country, this place of residence shall be in some city which is the seat of a university. He shall report in writing from time to time, concerning the work upon which he is engaged, to the head of the department in which his special subject lies, and, when required, to the President of the University.

The establishment of these fellowships insures an exchange of students between Columbia University and the French universities, as two travelling Fellows, receiving a stipend of four thousand francs each, are to be sent every year to Columbia University by the Ministry of Public Instruction of France.

#### MOSENTHAL FELLOWSHIP

The Mosenthal Fellowship, value \$600, in memory of the late Joseph Mosenthal, is designed to aid talented students of musical composition in the study of their art either here or abroad.

It is open both to men and women, not necessarily holders of an academic degree, and is awarded in every even-numbered year by the Council on the recommendation of the Professor of Music.

The Fellow must pursue his or her studies either at Columbia University or under the direction of some master approved by the President and Professor of Music. Applicants are required to have a thorough knowledge of harmony and the elements of counterpoint. Upon request, the Secretary of the University will furnish the special blank form of application for the fellowship.

#### PROUDFIT FELLOWSHIP IN LETTERS

The Alexander Moncrief Proudfit Fellowship in Letters for the encouragement of the study of English Literature, founded by the bequest of Alexander Moncrief Proudfit, is open to any son of native-born American parents who shall have taken the degree of Bachelor of Arts after a three years' residence in Columbia College, and who shall, while enjoying such fellowship, remain unmarried. The appointment is made by the Council upon the joint recommendation of the professors in the department of English. Such appointment shall be for the term of one year, and may be renewed, for reasons of weight, for two terms of one year each, and no more. The Fellow shall be entitled to receive during his incumbency the net income of the sum of \$13,875 (in 1902-03, \$505). He shall carry on his studies and research at Columbia University, or elsewhere, under the direction of the professors in the department named.



## SCHIFF FELLOWSHIP

The Schiff Fellowship in Political Science, the gift of Mr. Jacob H. Schiff, is of an annual value of \$600. The appointment is made each year by the Council upon the recommendation of the Faculty of Political Science, which recommendation is based upon the nomination following: On or before April 1 of each academic year the Faculty of Political Science shall propose to Mr. Jacob H. Schiff while living the name of a suitable person for nomination by him. The conditions to govern the nomination after Mr. Schiff's death will be found in the University Statutes.

## CARL SCHURZ FELLOWSHIP

The Carl Schurz Fellowship for the Study of the German Language and Literature is awarded, subject to such regulations as the Council may from time to time establish, in every even-numbered year, by the Council, upon the recommendation of the professors of the department of Germanic Languages and Literatures. The Fellow shall be entitled to receive the net income of the capital sum of \$10,000, constituting the endowment contributed by citizens of New York, in commemoration of the seventieth birthday of Carl Schurz, accruing during a period of two years preceding the appointment, and proportionately for any part of the term. The appointment may be renewed for reasons of weight for a further term of one year, but reappointment shall not entitle the Fellow to any additional stipend.

Candidates for this fellowship must present testimonials as to their zeal and success in the study of German, and must give evidence of their fitness for a wider and more profound study of the language and literature and for independent research. Such fitness may be shown by an essay or published treatise. Candidates must also have a sufficient knowledge of Latin and French to use these languages readily in the prosecution of their studies, and must present a certificate of good moral character. The holder must study at Columbia University under the direction of the department of Germanic Languages and Literatures, unless permitted by the Council to continue his studies at some German university.

## ANNUAL FELLOWSHIPS

The Treasurer may receive gifts of money for fellowships to run for one year or more, provided that no fellowship shall be created for less than \$500 per annum. Such fellowship shall be filled by the University Council, and shall be subject to such rules and regulations, not inconsistent with the Statutes, as may be prescribed by the Council.

## UNIVERSITY SCHOLARSHIPS

Thirty University scholarships, of an annual value of \$150, are awarded annually to students under the Faculties of Political Science,

Philosophy, and Pure Science. These scholarships are awarded under the following regulations:

1. The University scholarships are open to all graduates of colleges and scientific schools whose course of study has been such as to entitle them to be enrolled at Columbia as candidates for a University degree.

2. These scholarships are tenable for one academic year, with a possibility of renewal for one year longer.

3. Applications for University scholarships should be made in writing, on blanks that will be furnished for the purpose, and addressed to the President of Columbia University.<sup>1</sup> Applications must be filed not later than May 1. Should an unsuccessful applicant for a fellowship apply for a scholarship, the only information required from him will be that contained in the formal application for the fellowship.

4. The University scholarships will be awarded by the University Council at its regular meeting in May. The award will be made after applications have been examined and recommendations made by the Committee on University Scholarships. In making these recommendations the Committee will give preference to those candidates for University fellowships who have failed of appointment by the University Council after having been recommended for the same by any faculty or department.

5. University Scholars will be required to enroll themselves as candidates for a degree and to pursue a regular course of study leading thereto.

6. In case any one of the scholarships is not awarded in any year, or in case any scholarship shall become vacant otherwise than by the graduation of the incumbent, an additional Scholar may be appointed to fill such vacancy. The recipient of any such scholarship may, with the consent of the President, assign the income thereof to any properly qualified candidate without waiving his right to be designated as a University Scholar.

University Scholars may be held liable to serve as proctors at the autumn entrance examinations and at the semi-annual and concluding examinations without fee. They will not be called upon for service at times that interfere with their own academic work. Due notice of their assignments will be sent to them.

#### PRESIDENT'S UNIVERSITY SCHOLARSHIPS

In addition to the University scholarships, eight scholarships, known as the President's University Scholarships, are awarded by the University Council, governed by the regulations attached to the University scholarships, and by such further regulations as may from time to time be adopted by the Trustees.

#### UNIVERSITY SCHOLARSHIPS FOR WOMEN

Four University scholarships, known as the "Curtis University

<sup>1</sup> See also the last paragraph under Fellowship Regulations, page 30.

Scholarships," will be awarded annually to women students under the Faculties of Philosophy, Political Science, and Pure Science. These scholarships are awarded under the same regulations as those governing the University scholarships.

#### PULITZER SCHOLARSHIPS

Through the generosity of Mr. Joseph Pulitzer, a number of male graduates of the public high-schools of Manhattan and the Bronx are granted scholarships, not to exceed forty at any time. The scholarships are awarded by competitive examination, and the winners are permitted to hold their scholarships for a period of four years in the College or in any department of the University except the Medical School. The scholarship will be withdrawn if at any time the holder fails to maintain a satisfactory standard in his academic work. During the term of four years the student receives from Mr. Pulitzer the sum of \$250 a year over and above the cost of his tuition. Full information regarding the conditions under which these scholarships are awarded will be furnished, upon application, by the Secretary of the University.

#### JOHN D. JONES SCHOLARSHIP

The Wawepex Society makes annual provision for a scholarship amounting to \$200 and including the use of a table at the biological laboratory at Cold Spring Harbor, L. I. The award is made by the University Council upon the recommendation of the Department of Zoölogy.

#### ANNUAL SCHOLARSHIPS

The Treasurer may receive gifts of money for scholarships for one or more years, provided that no such scholarship shall be for a less sum than the annual tuition fee of the College or of the school in which it is provided.

#### MEDALS AND PRIZES

##### National Society of the Sons of the American Revolution Medal

The National Society of the Sons of the American Revolution offers a silver medal under the following regulations:

Competition shall be open to members of the senior class in the College, and to first-year students, not graduates of the College, studying under any of the faculties of the University. Each essay must contain not less than 1600 and not more than 2000 words and shall be upon the subject: "The Principles Fought for in the War of the Revolution." A typewritten copy of each essay must be presented to the President not later than May 1. The Committee of Award shall consist of the professors giving instruction in American History. The prize shall in no case be awarded to an essay defective in English composition.

The award, if made, will be announced by the President at Commencement.



A similar tender has been made to the principal colleges of the country, and the essays receiving the silver medals will be submitted to a committee of the National Society in competition for a gold medal to be awarded to the writer of the essay deemed most meritorious.

#### **Barnard Medal**

A gold medal established by the provisions of the will of President Barnard and endowed by him, known as the "Barnard Medal for Meritorious Service to Science," is awarded quinquennially to such person, if any, whether a citizen of the United States or any other country, as shall within the five years next preceding have made such discovery in physical or astronomical science, or such novel application of science to purposes beneficial to the human race, as in the judgment of the National Academy of Sciences of the United States shall be esteemed most worthy of such honor.

*Award of 1895*

LORD RAYLEIGH, F.R.S. PROFESSOR WILLIAM RAMSAY, F.R.S.

*Award of 1900*

PROFESSOR WILHELM CONRAD VON RÖNTGEN

#### **Bennett Prize**

A prize of \$40 has been established by Mr. James Gordon Bennett, to be awarded by the Faculty of Political Science for the best essay upon some subject of contemporaneous interest in the domestic or foreign policy of the United States, the subject for the present year being "The Interests of the United States in the West Indies." The competition is open to Seniors in the College and to all students, under any of the faculties of the University, who have not yet taken the baccalaureate degree, provided that they take courses amounting to six hours a week throughout the year in the School of Political Science. Essays must be submitted to the President on or before May 1.

#### **Bunner Medal**

The H. C. Bunner Gold Medal, provided for by the interest upon a fund of one thousand dollars, established in November, 1896, by the friends of the late Henry Cuyler Bunner, is awarded annually at Commencement to the candidate for a Columbia degree who shall present the best essay on an assigned subject in American literature. Essays must be submitted to the President on or before May 1. The award will be made by a committee to be appointed by the President. The subject for the essay to be handed in on May 1, 1904, is "Style in the American State Papers of the Eighteenth Century"; for 1905, "American Tragedy"; for 1906, "Thomas Jefferson as a Man of Letters."

#### **Loubat Prizes**

Mr. Joseph F. Loubat has endowed two prizes of \$1000 and \$400, respectively, for the best works published in the English language

upon the history, geography, archæology, ethnology, philology, or numismatics of North America. Competition is open, under the deed of gift, to all persons, whether connected with Columbia University or not, and whether citizens of the United States or of any other country. No treatises shall be eligible for the purposes of the competition except such as relate to the topics involving antiquarian research, or that refer to events prior to 1776. In order to insure consideration of their works, authors are invited to send copies to the President of Columbia University not later than April 1 of the year in which the prize is to be awarded; but the competition will not be restricted to works thus submitted. Copies of the regulations adopted by the Trustees can be obtained from the Secretary of the University.

The list of subjects given above is divided into two groups, in which the award will be made alternately. These groups consist, respectively, of history, geography, and numismatics; and of archæology, ethnology, and philology.

The foundation shall be employed to stimulate research and not simply to reward the authors of meritorious works published without reference to these prizes; the University may call for the investigation of certain questions and the publication of the results, and the best works produced in answer to this call, if of sufficient value, will receive the prizes. The awards to be made in 1908 shall be conferred for works relative to subjects in the first group. One or more special topics of investigation may be recommended, and the awards limited primarily to works upon such topic or topics.

For names of the Committee of Award for 1908, and for further details, address the Secretary of the University.

#### *Award of 1893*

First Prize, HENRY ADAMS, for his "History of the United States of America during the Administrations of Jefferson and Madison."

Second Prize, A. F. BANDELIER, for his "Report of Investigations among the Indians of the Southwestern States."

#### *Award of 1898*

First Prize, WILLIAM HENRY HOLMES, for his work entitled "Stone Implements of the Potomac—Chesapeake Tidewater Province."

Second Prize, FRANZ BOAS, Ph.D., for his monograph entitled "The Social Organization and the Secret Societies of the Kwakiutl Indians."

#### *In 1903, no award*

#### **Grant Squires Prize**

A prize known as the Grant Squires Prize, the income for five years of a fund of \$1000, established by Grant Squires, A.B. '85, LL.B.



'87, is awarded at Commencement at the close of every quinquennia period, to such graduate conducting an original investigation of a sociological character as shall be adjudged most worthy by a Committee of Award, consisting of the President, the Professor of Sociology, and one of the professors of Political Economy, appointed by the Faculty of Political Science. The next award will be in 1905. Such award shall be deemed to be a recognition of scientific ability and achievement, as well as an encouragement of research.

### **Toppan Prize**

A prize known as the Robert N. Toppan Prize, of \$150, maintained in memory of Robert N. Toppan, LL.B. '61, is awarded annually to the member of the School of Political Science who shall pass the best written examination upon a paper prepared by the professor in charge of the department of Constitutional Law.

## **Scholarships and Prizes in the College**

Seventy-two scholarships, of the annual value of \$150 each, are offered in the College. These scholarships are intended to be academic honors, and the holders are divided into three groups. The first group contains only those whose work entitles them to high academic distinction. The second consists of students of marked excellence who have not attained a position in the first group. The third comprises meritorious students to whom scholarships have been awarded on grounds of special claim. The names of holders of scholarships in groups 1 and 2 are published in the University catalogue.

The enjoyment of a scholarship for one year does not constitute a title to a second nomination. Should two scholarships be assigned to the same student in one year, he must at once make choice as to which he will retain. No student who has incurred serious academic censure in the course of the year will be considered as a candidate, nor any student who obtains leave of absence for the year in which the scholarship is payable. The payment of one or both instalments of the scholarships may be withheld if a student proves undeserving.

**Section I.** Scholarships awarded to Freshmen on the basis of competitive entrance examinations, tenable for one year. The Committee on Admissions awards these scholarships in the order given annually to those qualified competitors who pass the best entrance examinations in subjects aggregating the fifteen points requisite for admission, at the University in June of the entering year. A grade below C in any department will forfeit the scholarship. No applications need be filed by candidates for these scholarships. Reappointment may be made by the Committee on Scholarships under certain conditions for succeeding years.

Awarded not later than July 1:

## Competitive

Alumni Competitive Scholarships.....	4
Founded by the Trustees in 1890, one awarded annually.	
Hewitt and Harper Scholarships (2 each).....	4
Endowed by Abram S. Hewitt, LL.D., Class of '42, and Joseph W. Harper, A.M., Class of '48. One scholarship is open annually for competition to graduates of New York City high schools.	
Brooklyn Scholarships.....	12
Founded by the Trustees in 1895, in recognition of President Low's gift of a memorial building for the University Library. Three of these scholarships are open for competition annually to residents of Brooklyn who have received their training either in the public or the private schools of that borough.	

—20

**Section II.** Scholarships awarded to applicants by the Committee on Scholarships:

## Faculty, Beck, Campbell, and Class of '48

Six Faculty Scholarships established by the Trustees for award by the Faculty to students whose record for ability and scholarship, obtained either before or after matriculation, gives evidence of special fitness for the course of study which they propose to pursue, and who need pecuniary aid to obtain an education. Open to students of any class.... 6

The following scholarships are also awarded by the Faculty of the College in the same manner and subject to the same conditions as the Faculty Scholarships:

Beck Scholarship.....	1
Established in recognition of the liberality of Charles Bathgate Beck, LL.B., Class of '77.	
Campbell Scholarships.....	2
In memory of Robert B. Campbell of the Class of '44, and Henry P. Campbell of the Class of '47, established by Miss Maria L. Campbell and Miss Catharine B. Campbell.	
Class of '48 Scholarships.....	2
Established through the liberality of a member of the Class of '48.	

—11

## Endowed

Schermerhorn Scholarships.....	5
Endowed by John Jones Schermerhorn, A.B., of the Class of '25. Open to Freshmen only.	
Moffat Scholarships.....	2
Endowed by William B. Moffat, A.B., of the Class of '38; M.D., '42. Open to Freshmen only.	
Carried forward.....	7—31

Brought forward.....	7—31
Stuart Scholarships.....	2
Endowed in memory of Sidney Barculo Stuart, Class of '80, and Eugene Talman Stuart, Class of '81, by their grand- mother, Cornelia A. Atwill. Open to Freshmen only.	
Alumni Association Scholarships.....	4
Established by the Trustees in recognition of the interest that the Alumni Association has always shown in the affairs of the College. Open to Freshmen only.	
Society for Promoting Religion and Learning Scholarships....	8
Founded by the Society for Promoting Religion and Learn- ing, and awarded upon the nomination of that Society. Two students in each class.	
	—21

#### Benefactors

Morgan Scholarships.....	5
Vanderbilt Scholarships.....	5
A. A. Low Scholarships.....	3
Cutting Scholarships.....	2
Clark Scholarships.....	2
Sloan Scholarship.....	1
Parish Scholarship.....	1
Schiff Scholarship.....	1
	— 20

Established by the Trustees in 1899 in recognition of the liberal gifts for the purchase of the site on Morningside Heights received from J. Pierpont Morgan, Cornelius Vanderbilt, A. A. Low, R. Fulton Cutting, Alfred Corning Clark, Samuel Sloan, Henry Parish, Jacob H. Schiff, and others, designated collectively as "Benefactors Scholarships," of which the above have been assigned to the College. Open to students who have been not less than one year in the College.

Total —72

Scholarships under Section II are awarded under the following conditions:

Applications for scholarships must be made to the Committee, on blanks provided for the purpose, that may be obtained of the Secretary of the University.

The term of all scholarships is one year only. Should a renewal be desired by any Scholar he must make formal application for the same as in the first instance.

Students not in need of aid cannot be considered as applicants, nor will scholarships be assigned to candidates who through physical, mental, or moral weakness give little promise of future usefulness. Scholarships falling vacant may be filled at the discretion of the Committee.

## Summary

- A—*Scholarships Awarded to Students who have been in Residence at least One Year:* Twenty Benefactors Scholarships may be assigned each year to students who have been in residence for at least one year. The award is, in groups 1 and 2, based on the rank attained by the candidates in the work of the previous year. Applications should be filed with the Committee not later than May 1; the awards will be made not later than July 1. Students who have won competitive scholarships in their freshman year (*i. e.*, three Alumni Scholars, nine Brooklyn Scholars, and three Hewitt or Harper Scholars, see Section I) may also be reappointed from year to year by the Committee, under certain conditions.
- B—*Scholarships Awarded to Students in their First Year of Residence:* The five Schermerhorn, two Moffat, two Stuart, and four Alumni Association Scholarships are assigned to candidates entering the College, either before or after entrance. To secure such an award before entrance the candidate must be strongly recommended by the college, academy, or school with which he has been connected, and must have passed satisfactory entrance examinations. To secure such an award after entrance, he must have similar recommendations, have passed satisfactory entrance examinations, and, in general, have shown marked proficiency or promise in his college work. For award at entrance, applications should be filed not later than May 1; awards will be made not later than July 1. For award after entrance, applications should be filed not later than November 15; in general, awards will be made not later than December 1.
- C—*Faculty Scholarships*, six in number, the Beck Scholarship, the Campbell Scholarships, and the Class of '48 Scholarships, may be awarded to students in their first year of residence, or to students who have been in residence at least one year, at the discretion of the Committee on Scholarships. In their award, the general regulations applicable to the group in which they are awarded must be observed.

## Prize of the Alumni Association

A prize of fifty dollars in money or its equivalent, at the option of the receiver, established by the Association of the Alumni of Columbia College, was first awarded at Commencement in June, 1858. It is given "to the most faithful and deserving student of the graduating class."

Three names are selected by the Faculty and submitted to the class, who from these three designate one to receive the prize. Should the class at any time fail to make the selection, and give notice thereof to the President of the University at least ten days prior to the day



appointed for Commencement, the selection of the student to receive the prize may be made by the Faculty.

#### Chanler Historical Prize

By the bequest of J. Winthrop Chanler, A.B. '47, the income of \$1000 is awarded annually, on Commencement Day, to the member of the senior class of Columbia College who, in the judgment of the Faculty, shall be the author of the best original manuscript essay on the history of civil government in America, or some other historical subject. Essays must be handed to the President on or before May 1.

#### Curtis Medals

Through the generosity of an associate of the late George William Curtis in the work of Civil Service Reform, an endowment fund of \$1000 has been established for the award of two medals of gold and silver for excellence in public delivery of English orations to students in Columbia College. Competitors must be either juniors or seniors in regular standing, or in exceptional cases, and with permission of the Dean, special students taking junior or senior courses amounting to not less than 12 hours a week. The Department of English publishes about November 1 a list of subjects for the competition. Subjects not on the list may be chosen with the consent of the Department provided that application be made not later than December 1. The contestants will be selected by the Department at a preliminary competition which will not be open to the public. The final public competition will be held not less than two weeks later. The award will be made by judges appointed by the President.

#### General Theological Seminary Prizes

Regulations as to the Seminary prizes adopted by the Protestant Episcopal Society for Promoting Religion and Learning in the State of New York, at a stated meeting held on April 25, 1900:

1. Notice shall be given every year of the conditions of the prizes under the old regulations (see Announcement of the College for 1900-01, page 72), and applications invited. Wherever the conditions of the preceding competition show that one or both of the prizes have not been taken for lack of applicants, notice shall at the same time be given of the competition for the prize or prizes thus open under the new regulations set forth each year in the **Announcement of Columbia College**.

The Society's Greek Seminary Prize amounts to \$30 and the Society's English Prize to \$20.

#### Scholarship in the General Theological Seminary

The scholarship in the General Theological Seminary of the Protestant Episcopal Church (heretofore placed at the disposal of the Trustees of Columbia University by the Society for Promoting Religion and



Learning in the State of New York) is awarded upon the following conditions:

All candidates shall comply with the requirements for admission to the General Theological Seminary as candidates for the ministry of the Protestant Episcopal Church, and must have taken the degree of Bachelor of Arts and have graduated with honors.

All candidates shall report themselves to the Educational Committee of such Society at least three months previous to the examination to be held by the Faculty for the purpose of awarding such scholarship.

### Scholarships and Prizes in the School of Law

Twenty-one scholarships of the annual value of \$150 each are available annually for award to meritorious candidates for the degree of Bachelor of Laws standing in need of pecuniary aid.

The scholarships will be awarded by the Faculty at its meeting in June, immediately preceding Commencement. Scholarships not allotted at the June meeting, or becoming vacant, may be filled by the Faculty at its discretion.

Applications should be made in writing, not later than May 1, on blanks which will be furnished for the purpose by the Secretary of the University.

*Benefactors Scholarships.*—Eight Morgan and eight Vanderbilt Scholarships, known as Benefactors Scholarships, may be awarded to students who have been in the school for at least one year and whose record for ability and scholarship gives evidence of special fitness for the work of the school.

*Faculty Scholarships.*—Four Faculty Scholarships of the annual value of \$150 each may be awarded to members of any class who are college graduates and whose record for ability and scholarship, obtained either before or after matriculation, gives evidence of special fitness for the work of the school.

*Beck Prize Scholarship.*—The Charles Bathgate Beck Prize Scholarship is awarded to the member of the first-year class in the Law School who, having given evidence of special fitness as to ability and scholarship, and having reported himself in writing to the Dean as a candidate for this scholarship, shall pass the best examination in the subjects of the Law School course relating to Real-Estate Law. The holder shall, provided he remains a member of the school, receive one year's income of the prize fund established by the will of Charles Bathgate Beck in equal semi-annual instalments, during the two years following the award. If two or more students pass examinations of equal merit, the income of the fund may be subdivided.

## Fellowships, Scholarships, and Prizes in the College of Physicians and Surgeons

### Fellowships of the Alumni Association

Three Fellowships of the Alumni Association of the College of Physicians and Surgeons, maintained by the Association, were established in 1891.

These fellowships are open to graduates of the College of Physicians and Surgeons who have shown special aptitude for scientific research in the departments of anatomy, physiology, or pathology. They are held for a period of two years, and have an annual value of \$500 each. Appointments are made by the Executive Committee of the Alumni Association from candidates presented to them by the Professors of Anatomy, Physiology, and Pathology.

The incumbents are expected to devote themselves to scientific research in the department which they may elect, in this country, either in Columbia University, where they enjoy free tuition and the privileges of the laboratories, or in other institutions at their own expense. At the end of two years they are expected to present to the Association a thesis containing evidence of independent or original work in their special department.

### Proudfit Fellowship in Medicine

The Maria McLean Proudfit Fellowship, endowed by the late Alexander Moncrief Proudfit, A.B. '92, for the encouragement of advanced studies in medicine, is open to any son of native-born American parents, a graduate in medicine, who shall pursue advanced studies in internal medicine under the direction of the Medical Faculty of the University, and who shall, while enjoying such fellowship, remain unmarried, and shall be appointed by the University Council upon the recommendation of the Faculty of Medicine. Appointment shall be made every four years, beginning in 1904, upon terms to be designated by the Faculty. A vacancy may be filled for any unexpired term. The Fellow so appointed shall be entitled to receive, during his incumbency, the net income of the capital sum constituting the endowment of such fellowship. He shall carry on his studies and research at Columbia University, or elsewhere, under the direction of the Faculty of Medicine.

### Alonzo Clark Scholarship

By the will of the late Alonzo Clark, M.D., LL.D., for many years President of the College of Physicians and Surgeons, and Professor of Pathology and Practical Medicine, it has been placed in the power of the Medical Faculty to bestow a scholarship, with an income of about \$700 a year, for the purpose of promoting the discovery of new facts in medical science.

#### Harsen Scholarships

The income of a fund established by the late Jacob Harsen, M.D., in 1859, for the purpose of "promoting the study of Medical and Surgical Practice," has, under an order of the Supreme Court, been made available for the award of scholarships to students in the College of Physicians and Surgeons, in lieu of the Harsen prizes heretofore awarded. These scholarships, which are known as the Harsen Scholarships, are of the annual value of \$200 each, and are available annually, and tenable for one year. Two may be awarded to students taking the second year in the medical course; two to students in their third year; and two to students in their fourth year, provided that the aggregate of the stipends of such scholarships shall not exceed the income earned by the fund during the preceding year. The award of these scholarships is made under regulations established by the Faculty of Medicine only to students whose record for ability and scholarship gives evidence of special fitness and who need pecuniary aid to obtain an education. The holders of the scholarships are required to pay the tuition fees and all other fees.

#### Alumni Association Prize

The Alumni Association Prize is a biennial prize of \$500 open for competition to the alumni of the College of Physicians and Surgeons. It is awarded for the best medical essay submitted upon any subject the writer may select, and is open to competition in alternate years with the Cartwright Prize.

An essay in order to be held worthy of the prize must contain the result of original investigation made by the writer.

If no one of the competing essays be deemed sufficiently meritorious, the prize is not awarded.

Neither is it awarded to any essay which is the work of more than one author, or which is at the same time submitted for another prize.

Each competitor is required to send with his essay to the Prize Committee a statement that these requirements have been complied with.

Competing essays must each be marked with a device or motto, and accompanied by a sealed envelope, similarly marked, and containing the name and address of the author.

Essays in competition for the prize to be awarded at Commencement, 1904, must be sent to the Secretary of the Alumni Association of the College of Physicians and Surgeons on or before April 1, 1904.

#### Cartwright Prize of the Alumni Association

The Cartwright Prize of \$500 was endowed by a bequest of \$10,000 left by Benjamin Cartwright, and is offered for competition in alternate years with the Alumni Association Prize.

It is awarded on the same terms as the latter, except that it is open to universal competition. Essays in competition for the prize to be awarded at Commencement, 1905, must be sent to the Secretary of the Alumni Association on or before April 1, 1905.

**Joseph Mather Smith Prize**

The fund for the Joseph Mather Smith Prize was given by the relatives, friends, and pupils of the late Dr. Smith, as a memorial of his services as Professor of Materia Medica in the College of Physicians and Surgeons from 1826 to 1866. Under the provisions of the trust an annual prize of \$100 is awarded for the best essay (if sufficiently meritorious) on the subject of the year, presented by an alumnus of the College of Physicians and Surgeons.

**Stevens Triennial Prize**

The Stevens Triennial Prize, value \$200, established by the late Alexander Hodgdon Stevens, M.D., formerly President of the College of Physicians and Surgeons, is open for universal competition.

The Dean of the Medical Faculty, the President of the Alumni Association of the College of Physicians and Surgeons, and the Professor of Physiology, are, ex-officio, the administrators of the prize. Essays must be in the hands of the first-named on or before January 1, 1906.

**Scholarships and Prizes in the Schools of Mines, Chemistry, Engineering, and Architecture**

Applications for scholarships should be made in writing on blanks, which will be furnished for the purpose by the Secretary, and addressed to the Committee on Scholarships. They should be made on or before May 1, as any received later than this date may fail to receive consideration.

The award of scholarships will be made not later than July 1. Scholarships not allotted at this time, or becoming vacant, may be filled by the Committee at its discretion.

Scholarships granted in the first year of a student's connection with the University shall be for a half-year only, and shall be continued to those candidates only who have maintained a satisfactory academic standing during that period.

In awarding scholarships, preference will be given always to students of good academic standing and free from entrance conditions or other deficiencies. Scholarships will be awarded only to applicants who intend to complete one of the regular courses.

**Benefactors Scholarships**

In recognition of the liberal gifts for the purchase of the site on Morningside Heights which have been received from J. Pierpont Morgan, Cornelius Vanderbilt, D. Willis James, Morris K. Jesup, Samuel D. Babcock, Oswald Ottendorfer, and others, the Trustees have established a number of scholarships, known collectively as "Benefactors Scholarships," twenty-seven of which, of the annual value of \$200 each, are open to students in the Schools under the Faculty of Applied Science, as follows: seven Morgan, seven Vanderbilt,



ten James, one Jesup, one Babcock, and one Ottendorfer. These scholarships may be awarded to students who have been in the University for at least one year, and whose record for ability and scholarship gives evidence of special fitness for the course of study which they propose to pursue.

#### **Faculty Scholarships**

In addition to the above, eight Faculty Scholarships of the annual value of \$200 each may be awarded to members of any class whose records for ability and scholarship, obtained either before or after matriculation, give evidence of special fitness for the course of study which they propose to pursue.

#### **Lawrence Scholarship**

Through the generosity of Mr. Benjamin B. Lawrence of the Class of '78, Applied Science, a Scholarship in Mining Engineering of the value of \$200 is available annually for a deserving student in the course in mining engineering.

#### **Illig Medals**

A bequest of \$2000 left by William C. Illig, E.M. '82, provides for the annual award at Commencement to the student or students in the graduating class of one of the Schools of Applied Science, who shall, in the judgment of the Faculty, have merited the same by commendable proficiency in their regular studies.

#### **Darling Prize**

A prize to be known as the Edward A. Darling Prize in Mechanical Engineering shall be awarded annually to the most faithful and deserving student of the graduating class in mechanical engineering, the recipient of the prize to be chosen each year by ballot by members of the graduating class in the Course in Mechanical Engineering from among three names to be chosen by the Faculty of Applied Science; the amount of the prize to be the annual income of the sum of \$1000, bequeathed to the University by Edward A. Darling, formerly Superintendent of Buildings and Grounds.

### **Fellowships in the School of Architecture**

#### **Columbia Fellowship**

The Columbia Fellowship in Architecture, the net income for two years of \$13,000, established in recognition of the gifts of F. Augustus Schermerhorn, E.M. '68, to the department of Architecture, is open to all graduates of the School of Architecture less than thirty years of age. It is awarded at Commencement in every even-numbered year under such rules and regulations as shall from time to time be determined by the President and the Professor of Architecture. Holders of such



fellowships shall devote the income thereof to foreign study and travel in accordance with plans prepared by themselves and approved by the President and such professor, and shall upon return present a written report and exhibit drawings in the School of Architecture.

#### McKim Fellowships

Two fellowships, known as the McKim Fellowships in Architecture, endowed by gift of Charles F. McKim of \$20,000, are awarded in every uneven-numbered year, upon like conditions and for like purposes as are specified for the Columbia Fellowship.

#### Perkins Fellowship

A travelling fellowship, the net income from a fund of \$5700, from the bequest of the late Willard B. Perkins, is awarded every fourth year, the next award being in 1906. The conditions of award and the purposes of the fellowship are the same as for the Columbia and McKim Fellowships.

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For the Fellowships, Scholarships and Prizes in Barnard College and Teachers College, see the Table of Contents.

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### SPECIAL FUNDS

The following funds have been given to the Trustees from time to time and are held by them for the purposes specified:

#### GEBHARD FUND:

Bequest of Frederick Gebhard of \$20,000, for the endowment of a professorship in the German Language and Literature. 1843

#### FUND OF THE SOCIETY FOR PROMOTING RELIGION AND LEARNING:

Gift (through Professor McVickar) of \$1000, for the endowment of two prizes. 1852

"The Society's Greek Seminary Prize," and  
"The Society's English Seminary Prize."

#### HARSEN PRIZE FUND:

Bequest of Jacob Harsen, M.D., Class of 1825, of \$31,114.10, for the endowment of prizes to be awarded to students in the College of Physicians and Surgeons. 1859

#### MOFFAT SCHOLARSHIP FUND:

Bequest of William B. Moffat, M.D., Class of 1838, of \$2000, for the endowment of scholarships. 1862

#### STEVENS PRIZE FUND:

Gift of Dr. A. H. Stevens, Professor of Surgery, 1860-1867, of \$1899.88, for the endowment of a prize. 1866

**JOSEPH MATHER SMITH PRIZE FUND:**

Subscription fund of \$2337.81, as a memorial of Dr. Smith, for the endowment of a prize in the College of Physicians and Surgeons.

1874

**CHANLER PRIZE FUND:**

Bequest of John Winthrop Chanler, Class of 1847, of \$1000, for the endowment of an essay prize.

1877

**SCHERMERHORN SCHOLARSHIP FUND:**

Bequest of John Jones Schermerhorn, Class of 1825, of \$5000, for the endowment of scholarships.

1877

**TYNDALL FELLOWSHIP FUND:**

Gift of John Tyndall, LL.D., Professor of Natural History in the Royal Institution of Great Britain, of \$10,945.50, for the endowment of a fellowship in Physics.

1885

**ALONZO CLARK SCHOLARSHIP FUND:**

Gift of \$14,000 as a memorial of Alonzo Clark, President of the College of Physicians and Surgeons, 1875-1884, for the endowment of a scholarship.

1887

**McKIM FUND:**

Gift of Charles F. McKim of \$20,000, for the endowment of travelling fellowships in Architecture.

1889

**COLUMBIA FELLOWSHIP IN ARCHITECTURE FUND:**

Gift of F. Augustus Schermerhorn, Class of 1868, of \$13,000, to the School of Architecture, applied to the endowment of a travelling fellowship in Architecture.

1889

**BARNARD FUND FOR THE INCREASE OF THE LIBRARY:**

Bequest by President Barnard of \$59,501.64, and augmented by a bequest by his widow, Margaret M. Barnard, of \$16,231.67, to endow a fund for the purchase of books, especially those relating to physical or astronomical science, and for the award of a medal for discovery in Physics or Astronomy.

1889 and 1892

**BARNARD FELLOWSHIP FUND:**

Bequest by President Barnard of \$10,000, for the endowment of a fellowship for encouraging scientific research.

1889

**DaCOSTA FUND:**

Bequest of Charles M. DaCosta, Class of 1855, Trustee 1886-1890, of \$100,000, has provided \$86,576.83, applied to the endowment of the DaCosta Professorship of Zoölogy; and of \$20,000 used for fitting up the DaCosta Laboratory of Zoölogy.

1890

## SLOANE MATERNITY HOSPITAL FUND:

Gift of William D. Sloane and Emily Thorn Vanderbilt Sloane, of \$250,000, for the endowment of the Hospital. 1890

## VANDERBILT CLINIC ENDOWMENT FUND:

Gift of Cornelius Vanderbilt, William K. Vanderbilt, Frederick W. Vanderbilt, and George W. Vanderbilt, of \$115,000, for the endowment of the Clinic. 1890

## AVERY ARCHITECTURAL FUND:

Gift of Samuel P. Avery and Mary Ogden Avery of \$30,000, in memory of their deceased son, Henry Ogden Avery. The income to be applied to the purchase of books relating to architecture, decorations, and allied arts. 1890

## LOUBAT FUND:

Gift of Joseph F. Loubat of \$7000, for the endowment of two prizes of \$1000 and \$400 to be awarded once in every five years. See page 38. 1892

## TROWBRIDGE FUND:

Gift of \$10,000, for the endowment of a fellowship in Engineering as a memorial of William P. Trowbridge, Ph.D., LL.D., Professor of Mining Engineering, 1877-1892, subject at present to a life interest. \$50,448.75 on hand. 1893

## PULITZER SCHOLARSHIP FUND:

Gift of Joseph Pulitzer of \$100,000, for the endowment of scholarships. 1893

## BENNETT PRIZE FUND:

Gift of James Gordon Bennett of \$1000 for the endowment of an essay prize. 1893

## HENRY DRISLER CLASSICAL FUND:

Gift of \$10,000, presented by Seth Low, LL.D., Class of 1870, in commemoration of the semi-centennial of Professor Drisler in the service of the College, for the endowment of a fund for the purchase of books and works of art for the Greek and Latin departments. 1894

## GRANT SQUIRES FUND:

Gift of Grant Squires, Class of 1885, of \$1050, for the endowment of an essay prize. 1895

## STUART SCHOLARSHIP FUND:

Gift of Mrs. Cornelia A. Atwill of \$6000, for the endowment of the "Stuart Scholarships" in memory of her grandsons, Sidney Barculo Stuart, Class of 1880, and Eugene Talman Stuart, Class of 1881. 1896

**ALEXANDER I. COTHEAL FUND FOR THE INCREASE OF THE LIBRARY:**

Gift of Mrs. Samuel R. Lawrence and Mrs. James R. Swords of \$6000, in memory of their brother, Alexander I. Cotheal, for the endowment of a fund for the purchase of books in the Oriental languages, or relating to Oriental subjects. 1896

**ROBERT CENTER FUND FOR INSTRUCTION IN MUSIC:**

Gift of Mrs. Mary Elizabeth Ludlow of real estate and securities valued at \$178,046.50, for the endowment of a fund for instruction in music as a memorial of her son, Robert Center, applied to the maintenance of a professorship. 1896

**STUDENTS' LOAN FUND:**

Gift of Jacob H. Schiff of \$5000, for the aid of needy students. 1896

**H. C. BUNNER PRIZE FUND:**

Gift of \$1000, for the endowment of an essay prize. 1896

**ILLIG FUND:**

Bequest of William C. Illig, Class of 1882 (S. of M.), of \$2000, for the endowment of scholarship medals. 1897

**MOSENTHAL FELLOWSHIP FUND:**

Gift of friends of the late Joseph Mosenthal of \$7500, to found a fellowship in Music. 1898

**PERKINS FELLOWSHIP FUND:**

Bequest of Willard B. Perkins of \$5700, for a travelling fellowship in Architecture, awarded quadrennially. 1898

**SCHIFF FELLOWSHIP FUND:**

Gift of Jacob H. Schiff of \$15,000, to found a fellowship to be awarded by the Faculty of Political Science on the nomination of the donor or his eldest living male descendant. 1898

**SEIDL FUND:**

The proceeds, amounting to \$12,000, of a memorial performance (March 23, 1899), in honor of the late Anton Seidl. The income of the fund to be paid to Mrs. Seidl during her lifetime, and thereafter "to be awarded at least every second year to the most promising candidate, either man or woman, prepared to devote himself to the study of musical composition at Columbia University, or elsewhere in this country or abroad." 1899

**WARING MUNICIPAL FUND:**

The Chamber of Commerce of the State of New York, in 1898, raised by public subscription the sum of \$100,000, to perpetuate the memory of the late Col. George E. Waring. The income thereof (to be not less than \$4000 per year) to be paid semi-annually to the widow and daughter of Colonel Waring during



their lifetime, and thereafter the income "shall be devoted to the purpose of instruction in municipal affairs in such manner as the President and Board of Trustees of said Columbia College may direct." 1899

FUND FOR THE ENDOWMENT OF THE ABRAHAM JACOBI WARD FOR CHILDREN IN ROOSEVELT HOSPITAL:

Gift of an anonymous donor of \$50,000, "to endow a ward for children in the Roosevelt Hospital." 1899

BECK FUNDS:

The late Charles Bathgate Beck, A.B. Class of 1877, LL.B. Class of 1879 (who died in 1894), bequeathed the sum of \$10,000 to be applied as follows: \$2000 to found one scholarship in Columbia College; the income of the remaining \$8000 to be used for an annual prize to the student in the Law School who shall pass the best examination in Real Estate Law. 1899

CURTIS FUND:

Gift of the George William Curtis Memorial Committee of \$10,000, to establish the George William Curtis Fellowship in the School of Political Science. 1899

DYCKMAN FUND:

Gift of Isaac Michael Dyckman of \$10,000, in memory of his uncles, Dr. Jacob Dyckman and Dr. James Dyckman, both of the College of Physicians and Surgeons, to establish the "Dyckman Fund for the Encouragement of Biological Research." 1899

ALEXANDER MONCRIEF PROUDFIT FELLOWSHIP FUND:

Legacy of \$15,000 from the late Alexander Moncrief Proudfit, to found a fellowship to be known as The Alexander Moncrief Proudfit Fellowship in Letters. 1899

MARIA McLEAN PROUDFIT FELLOWSHIP FUND, SCHOOL OF MEDICINE:

Legacy of \$15,000 from the late Alexander Moncrief Proudfit, to found a fellowship in the School of Medicine, to be known as "The Maria McLean Proudfit Fellowship." 1899

TRUST FUND FOR PSYCHOLOGY:

Gift of \$100,000 from John D. Rockefeller, as an endowment of the head professorship of the Psychological Department of Columbia University. 1899

CARL SCHURZ FELLOWSHIP FUND:

Fund of \$10,000 from the Carl Schurz Fund Committee, to establish a fellowship in honor of Carl Schurz. 1900

**CARL SCHURZ LIBRARY FUND:**

Fund of \$10,000 from the Carl Schurz Fund Committee, established in honor of Carl Schurz. The income to be devoted to the purchase of books, maps, pamphlets, and the like, in the field of the German Language and Literature. 1900

**LAW BOOK TRUST FUND:**

Created by act of the Trustees on March 5, 1900, by the consolidation of the Alexander Cole Gift (\$1500); John Jay Jenkins Legacy (\$500); John McKeon Fund (\$1000); Sampson Simpson Fund (\$1000); and the Edgar J. Nathan Gift (\$250); total, \$4250, the income to be applied to the purchase of law books. 1900

**CAMPBELL SCHOLARSHIP FUND:**

Gifts of \$3000 each from Miss Maria L. Campbell and Miss Catharine B. Campbell, for the establishment of two scholarships in the College, in memory of Robert B. Campbell of the Class of 1844, and Henry P. Campbell of the Class of 1847. 1901

**GERMAN LECTURE FUND:**

Gifts to the sum of \$1000 for an endowment of Public Lectures in German at the University. 1901

**EATON PROFESSORSHIP FUND:**

Bequest of the late Dorman B. Eaton of \$100,000, to endow and maintain a Professorship of Administrative Law and Municipal Science. 1901

**DEAN LUNG PROFESSORSHIP IN CHINESE FUND:**

Gift of anonymous friends, through the President, of \$213,000 towards the founding of a Department of Chinese Languages, Literatures, Religion, and Law, and especially for the establishment of a Professorship to be known as the Dean Lung Professorship of Chinese. 1901

**CLASS OF 1848 SCHOLARSHIP FUND:**

Gift of \$10,000 of an anonymous friend to found two scholarships in the College. 1902

**GEORGE WILLIAM CURTIS MEDALS FUND:**

Gift of \$1000 from an associate of George William Curtis in the Civil Service Reform work to establish this fund. 1902

**PHILOLEXIAN CENTENNIAL WASHINGTON PRIZE FUND:**

Gift of \$1000 from the Philolexian Society to establish this fund. 1902

**PHŒNIX LEGACY:**

Amounting at present to \$147,820.19, being one-third part of the residuary estate of the late Stephen Whitney Phoenix, bequeathed to Columbia College in 1881. 1902

**JULIUS BEER LECTURE FUND:**

Legacy of the late Julius Beer of \$10,000 to establish this fund.  
1903

**JAMES S. CARPENTIER FUND:**

Gift of \$100,000 from General Horace W. Carpentier of the Class of 1848, in memory of his brother, James S. Carpentier, for the benefit of the Law School.  
1903

**GUSTAV GOTTHEIL FELLOWSHIP FUND:**

Gift of \$10,000 from Temple Emanu-El to establish a Fellowship, the holder of which is to be nominated by the Professors in the Department of Semitic Languages, subject to confirmation by the Trustees.  
1903

**LOUBAT PROFESSORSHIP FUND:**

Gift of \$100,000 from Joseph F. Loubat to establish the Loubat Professorship in American Archæology.  
1903

## PRIVILEGES IN OTHER INSTITUTIONS OPEN TO STUDENTS OF COLUMBIA UNIVERSITY

### American Museum of Natural History

The American Museum of Natural History places its collection at the service of advanced students of Columbia University for the purposes of study and research, and provides them with the necessary facilities for work.

### Metropolitan Museum of Art

The Metropolitan Museum of Art admits students of Columbia University on presentation of their matriculation cards, and gives them permission to draw, sketch, or copy objects in the Museum; the curator of the department in which the student desires to work furnishing him with cards for the work.

Objects may be removed temporarily from exhibition for the purpose of special study, and students are allowed to study these objects in rooms specified for the purpose.

### Theological Seminaries

The Union Theological Seminary admits, without tuition fee, such students of high standing in the senior year of Columbia College and in the graduate schools of the University as may be recommended by the President, to such lectures in the regular courses of the Seminary as may be agreed upon by the Faculty of the Seminary and the President of Columbia University, and also any students of high standing in the graduate schools of Columbia University recommended by the President, to any optional or special classes, subject to the approval of the Faculty of the Seminary. The privileges of the Library of the Seminary, for reference, are open to all students of Columbia Univer-

sity on recommendation of the President. Reciprocal advantages are offered by the University to students of the Seminary.

The University enjoys similar reciprocal arrangements with the other theological seminaries in the vicinity of New York—the General, Jewish, Drew Theological Seminary (Madison, N. J.), and St. Joseph's Theological Seminary (Yonkers, N. Y.).

#### Botanical Garden

Columbia University has the right to conduct university courses in botany at the New York Botanical Garden and to use the laboratories and floral material of the same, and all courses of instruction given there are open to officers and students of the University without charge. For a description of the equipment of the Botanical Garden, see the statement of the Department of Botany in this volume.

#### Hospitals

Besides the Vanderbilt Clinic, the general and special hospitals of New York afford most important fields for clinical teaching. The College of Physicians and Surgeons is strongly represented on the staffs of these institutions, and regular clinical instruction at hospitals is made a prominent feature of the curriculum. Admission is free to all matriculated students of the College of Physicians and Surgeons.

### PUBLIC LECTURES

The University conducts annually a single course of public lectures by some eminent authority at the Cooper Union, and, beginning with the year 1903-04, will conduct similar courses in alternate years at the American Museum of Natural History and the Metropolitan Museum of Art. During the year many public lectures are also delivered at the University, several of the departments of instruction presenting courses each year. Information as to all public lectures under the auspices of the University will be furnished by the Secretary.

### THE LIBRARY

JAMES H. CANFIELD.....	<i>Librarian</i>
CHARLES A. NELSON.....	<i>Head Reference Librarian</i> <i>and Editor of Library Publications</i>
EDWARD R. SMITH.....	<i>Reference Librarian, Avery Library</i>
JOHN D. KAPS.....	<i>Law Librarian</i>
MARGARET VAN ZANDT.....	<i>Supervisor, Order Department</i>
HARRIET B. PRESCOTT.....	<i>Supervisor, Catalogue Department</i>
VLADIMIR GR. SIMKHOVITCH.....	<i>Supervisor, Department of Serials</i>
FREDERIC W. ERB....	<i>Supervisor, Loan Division of Readers' Department</i>
FRANK C. ERB.....	<i>Supervisor, Shelf Department</i>

The Library is open each week day (except Thanksgiving, Christmas, Good Friday, and Independence Day) from 8.30 A.M. until 11 P.M., October-June; and until 10 P.M., July-September. All officers,



students, and graduates of the University have free access to the Library and may draw books for home use.

Officers of the New York University and of the College of the City of New York are granted the same Library privileges as are extended to graduates of Columbia University.

Persons of mature years desiring to engage in definite research which cannot be successfully conducted in the public or other libraries of this city will be given the privilege of using this Library in the building, upon filing a satisfactory application, responsibly endorsed. Blank applications will be furnished by the Librarian on request.

A reference library of about 10,000 volumes of carefully selected reference books and of the most important works on all subjects, in standard editions, representing the leading authors in all literatures, is placed in the general reading-room, directly accessible to all readers.

Connected with the stacks in which are stored the books relating especially to Philosophy, Education, Literature, and Philology, the Sociological and Economic Sciences, Public Law, and History, are twenty special study rooms, open only to authorized readers. This arrangement is intended to give to advanced students and investigators in these fields the fullest opportunity to carry on their work by the use of a quiet room in the immediate vicinity of the literature of the subjects under consideration.

The reading-room of the Law Library occupies the middle of the north wing of the Library building, on the main floor. This is the central feature of the Law School, to which the north wing of the building is temporarily devoted.

The Avery Architectural Library is a collection of about 17,500 volumes relating to architecture and decorative art. Readers have direct access to the alcoves.

The entire Library is carefully and accurately catalogued both by authors and subjects. The catalogue is on cards accessible to readers.

The Library contains about 350,000 volumes, exclusive of unbound pamphlets and duplicates. The additions for the past five years have averaged over 18,000 volumes annually.

Among the notable special collections may be mentioned the Phoenix Library, consisting of 7000 volumes, the gift of Stephen Whitney Phoenix of the Class of 1859; the Avery Architectural Library; the Mary Queen of Scots Library, containing 400 volumes, collected and given by General J. Watts de Peyster; the collection of over 1200 volumes by and about Goethe; the Immanuel Kant collection of about 700 volumes; the valuable Townsend Library of National, State, and Individual War Records; the Garden Library, deposited by the Southern Society of New York; the large and valuable library of the Holland Society of New York, including the remarkable collection of works of Grotius; and the Library of the American Mathematical Society. The Library is also the depository for the American Association for the Advancement of Science.

## THE GYMNASIUM

GEORGE L. MEYLAN, M.D.....	<i>Medical Director</i>
WILLIAM SKARSTROM, M.D.....	<i>Instructor</i>
JOHN A. DAVIS.....	<i>Assistant</i>
CHARLES HOLROYD.....	<i>Teacher of Swimming</i>
WILLIAM L. ESSEX.....	<i>Clerk</i>

The Gymnasium is open daily during the academic year, except on Sundays and legal holidays, from 9.30 A.M. to 7 P.M., Saturdays to 6 P.M. The Gymnasium is closed for the entire day only on Thanksgiving, Christmas, New Year's, and Good Friday. On all other holidays it is open from 2 to 6 P.M.

The general exercising room is apsidal in shape, and measures on its axes 168 feet by 134 feet in the clear. The ceiling is 35 feet high, and the room is well lighted and well ventilated, both naturally and artificially. The running track is 11 feet wide, with ends well raised for fast running, and measures 10 laps to the mile. On a floor 22 feet above the exercising floor are rooms for fencing, boxing, and handball, 1760 lockers made of steel and open wire, and 32 shower-baths. Below the exercising floor is a swimming pool, semicircular in shape, measuring 100 feet by 50 feet on its axes. Around the pool are four large dressing- and rubbing-rooms, 42 individual dressing-rooms of thick opaque glass, and 20 shower-, needle-, and tub-baths. The pool contains about 200,000 gallons of water, which is filtered and, in winter, warmed. The depth is from 4 to 10 feet. On this floor is also a special training room with separate bath and locker rooms for the various athletic teams.

All men students other than students of the College of Physicians and Surgeons must pay annually a gymnasium fee of \$7.00. This covers the use of the Gymnasium, a locker, and the baths during the academic year, and includes all necessary laundry service. Officers, students in the College of Physicians and Surgeons, and alumni may use the Gymnasium upon the same terms.

Every student is entitled to a physical examination by the Director. His physical measurements are recorded; his strength tested; his heart, lungs, eyes, and ears examined; and his general health inquired into. On the basis of this examination, advice is given as to the kind and amount of exercise best adapted to his needs.

Two hours a week of work in the Gymnasium is prescribed for all members of the two lower classes in the College and the Schools of Applied Science, except special students, students holding degrees from other colleges, and students physically unable to perform the work. A physical examination is required of each student in these classes upon entrance and upon completion of the required work or at the end of the second year, and of all other students taking part in athletics.

The work prescribed for these classes has been arranged with a view

to securing three definite ends. First, health; secondly, organic vigor, control, efficiency, and endurance; third, erect carriage and correct position of the head, shoulders, and chest.

The order of exercises is based on physiological principles and designed to exercise every part of the body without exhaustion.

The prescribed work consists of (1) carefully arranged movements in classes—light gymnastics with and without hand apparatus, and chest-weights; (2) progressive exercises in graded squads, on the various pieces of apparatus, such as horizontal, vaulting, parallel, and stall bars, vaulting horse, buck, and suspended bars and ladders, mat and jumping exercises; (3) gymnastic games that afford recreation, develop agility, coördination, and ability to think and act quickly. Students who cannot swim are taught to do so.

Students are marked upon the basis of attendance, effort, and knowledge of the subjects taught, and the passing mark is necessary for a degree.

Optional classes, open to every member of the University, are held every afternoon except Saturday.

One or more of the instructors are on the floor at all times when the Gymnasium is in use.

### STUDENT ORGANIZATIONS

The various student organizations, athletic and other, are self-governing, but all budgets for expenditures must be approved by the Comptroller of Student Organizations, an officer appointed by the President: and each organization is required to keep an accurate record of its financial operations in the office of the Director. The schedules of each athletic team, and all questions of eligibility for participation in athletic contests, are under the supervision of the Faculty Committee on Athletics. A pamphlet giving full information regarding the organization and administration of athletic sports at the University (including the rules of the Faculty Committee on Athletics) may be obtained from the Secretary of the University.

### UNIVERSITY COMMONS

A University Commons is maintained in the Alumni Dining Hall of University Hall for the convenience of officers and students. It is open daily except Sunday, from 8 A.M. to 7 P.M.

### RESIDENCE HALLS

#### For Men

Hartley Hall, a University dormitory with accommodations for men, is in course of erection on South Field, as a memorial to the late

Marcellus Hartley. It will probably be ready for occupancy during the academic year, beginning September, 1904. While the dormitory will be open to all male students of the University, students in Columbia College, in accordance with the desire of the donors, Mrs. Helen Hartley Jenkins and Mr. Marcellus Hartley Dodge, will be given the preference in the assignment of rooms should the number of applications exceed the capacity of the building.

Knowlton Hall is a well-equipped private dormitory under the supervision of a University officer, with accommodations for men. It is situated in the immediate vicinity of the University. Inquiries regarding rooms should be addressed to the *Manager of Knowlton Hall*, Broadway and 124th Street, New York. The University supervisor for 1903-04 is Dr. Adam Levy Jones of the Department of Philosophy.

### For Women

Whittier Hall, a dormitory building under the supervision of the authorities of Teachers College, is situated on Amsterdam Avenue, between 120th and 121st Streets, and has accommodations for 350 women. Inquiries regarding rooms, board, and the like, should be addressed to *The Secretary*, Whittier Hall, 1230 Amsterdam Avenue.

Besides these dormitories, there are many good boarding-houses and apartments near the University. A list of such of these as have filed references with the University will be found in the office of the Secretary of Earl Hall.

### EARL HALL

Earl Hall, erected and equipped as a gift of a friend of the University, is entirely devoted to the religious, philanthropic, and social life of the University. On the ground floor are large and inviting rooms for the women students, a suite of living rooms for the Secretary of Earl Hall, a large room for Bible classes and other similar organizations, and a committee room. The first floor, reached by a fine approach through a heavily columned portico, contains a general reception and social room, the office of the Secretary, two class rooms or committee rooms, a small auditorium, and a large and well-equipped reading-room. On the second floor is a special reference library for students of mission work, a small social room, and the large auditorium. The Hall is open, without expense, to all students of the University, and its occupancy and work are under the general control of a Committee of Officers and Alumni, and under the direct management of the Secretary of Earl Hall, who is also Secretary of the University Young Men's Christian Association.

Mr. Howard Richards, Jr., is the Secretary, and the Committee is constituted as follows:



JAMES H. CANFIELD, *Chairman*,

T. LUDLOW CHRYSTIE,	WILLIAM G. LOW, Jr.,
CLEVELAND H. DODGE,	V. EVERIT MACY,
MARCELLUS H. DODGE,	WM. FELLOWES MORGAN,
JAMES ALEXANDER EDWARDS,	WILLIAM H. SAGE,
THOMAS EWING, Jr.,	HERBERT L. SATTERLEE,
LAURA D. GILL,	Professor WM. SLOANE,
REV. SHEPHERD KNAPP, Jr.,	ALEXANDER H. SMITH.

### PUBLIC WORSHIP AND RELIGIOUS WORK

A service is held every week day, except Saturday, in the auditorium of Earl Hall, at 9.10 A.M. This hour, though early for those who live at a distance, has been found the most convenient, all things considered. The service lasts fifteen minutes, in which time there are singing, reading the Scriptures, prayers and an address by the Chaplain or some other officer of the University. Attendance is wholly voluntary. All officers and students of the University are invited to attend, and those who profess and call themselves Christians are expected to give support to the services by their occasional presence.

The Chaplain spends his morning hours in his office, where at stated times he is glad to welcome any student who may wish to confer with him.

## DEPARTMENTS OF INSTRUCTION

When an announced course has not been applied for by at least three students, candidates for a degree, the instructor shall be at liberty to withdraw the course.

The number of hours, unless otherwise specified, indicates the number of hours a week for the entire year.

Consult the index for any subject of study not appearing in its alphabetical order.

### Anatomy

GEORGE SUMNER HUNTINGTON, M.D.....	<i>Professor</i>
BERN BUDD GALLAUDET, M.D.....	<i>Demonstrator</i>
HOWARD D. COLLINS, M.D.....	<i>Assistant Demonstrator</i>
CHURCHILL CARMALT, M.D.....	<i>Assistant Demonstrator</i>
ARTHUR S. VOSBURGH, M.D.....	<i>Assistant Demonstrator</i>
HENRY E. HALE, M.D.....	<i>Assistant Demonstrator</i>
ADRIAN VAN SINDEREN LAMBERT, M.D.....	<i>Assistant Demonstrator</i>
CARLTON PHILIPS FLINT, M.D.....	<i>Assistant Demonstrator</i>
EUGENE HILLHOUSE POOL, M.D.....	<i>Assistant Demonstrator</i>
WILLIAM DARRACH, M.D.....	<i>Assistant Demonstrator</i>
ROLFE FLOYD, M.D.....	<i>Lecturer</i>

Courses 2, 3, 4, 5, and 10 are required in the first year of candidates for the degree of M.D. The five courses together may be elected by seniors in Columbia College.

Courses 1, 6, 7, 8, and 9 are required in the second year of candidates for the degree of M.D.

Course 11 may be offered as a major or minor for the degree of A.M. or Ph.D. according to special arrangement with the head of the department. It is optional for qualified candidates for the degree of M.D.

Courses 12-23 may be offered each as a minor for the degree of A.M. They are optional for candidates for the degree of M.D., and are open to post-graduate students in medicine.

Course 24 cannot be counted for a degree. It is open to teachers and qualified graduate students.

Course 25 is open to students of the first and second years.

None of the courses of the Department of Anatomy are open to women.

## Courses

1—Vertebrate morphology—Anatomy of the body cavities—Visceral and topographical course—Thorax and abdomen. Lectures combined with demonstrations. 3 hours. Professor HUNTINGTON

2—Demonstrations to sections of the class—Cranial osteology; syndesmology, myology, peripheral nervous system, and angiology of the head and neck. 1 hour. Dr. LAMBERT

3—Demonstrations to sections of the class—Osteology, syndesmology, myology, peripheral nervous system, and angiology of the extremities. 2 hours. Drs. CARMALT and VOSBURGH

These courses are so arranged as to maintain, with reference to the subjects treated, a direct connection with the laboratory course in dissection, 5.

5—Laboratory course—Dissection of the human body. 18 to 20 hours a week, at various hours, for from 3 to 5 periods of 4 weeks each. Professor HUNTINGTON, Dr. GALLAUDET, and the ASSISTANT DEMONSTRATORS OF ANATOMY

6—Laboratory course—Dissection of the human body. 10 to 12 hours a week for from 6 to 11 weeks. Professor HUNTINGTON, Dr. GALLAUDET, and the ASSISTANT DEMONSTRATORS OF ANATOMY

7—Demonstrations to sections of the class—Anatomy of the mouth, pharynx, and larynx—The auditory apparatus—The central nervous system. 3 hours. Dr. GALLAUDET

8—Demonstrations to sections of the class—Visceral anatomy. This course preserves an organic connection with Course 1, and presents for direct examination and demonstration the preparations serving to illustrate that course. 2 hours. Dr. DARRACH

9—Demonstrations to sections of the class—Anatomy of the cranial nerves. 1 hour for one half-year. Dr. FLINT

10—Course in mammalian morphology—Introductory to Physiology. 2 hours a week for one half-year. Professor HUNTINGTON and Dr. DARRACH

## Research

11—The laboratory of animal morphology is open for research, under the direction of the professor, to advanced workers. Professor HUNTINGTON

12—Comparative morphology of the carpus—A comparative study of the carpus in vertebrates above fishes, with especial reference to the homologies of the components, their evolution and significance, and their mutual relations in amphibia, reptiles, birds, and mammals. Professor HUNTINGTON and Dr. DARRACH

13—Comparative morphology of the respiratory apparatus in mammalia, sauropsida, and batrachia—Evolution of the composite mam-

malian lung from the air-sac—Morphology of mammalian bronchial tree—Construction of terminal branches and end spaces—Skeletal and other modifications of the respiratory apparatus in birds. Professor HUNTINGTON and Dr. DARRACH

14—Comparative morphology of the central nervous system—Demonstration and laboratory course—Detailed work in brain of cod, frog, turtle, bird, and mammal. Professor HUNTINGTON and Dr. DARRACH

15—Comparative myology. (a) Appendicular muscles. (b) Ventro-appendicular muscles. (c) Muscles of the foot. Professor HUNTINGTON and Dr. DARRACH

16—Human and comparative morphology of the auditory apparatus. Professor HUNTINGTON and Dr. DARRACH

17—Comparative morphology of the upper respiratory passages, nares, larynx, epiglottis, syrinx. Professor HUNTINGTON and Dr. DARRACH

18—Comparative morphology of the uro-genital system. Professor HUNTINGTON and Dr. DARRACH

19—Cranial topography. Professor HUNTINGTON and Dr. DARRACH

This course is designed for advanced students possessing a knowledge of the gross morphology of the human brain.

Pre-requisite: Course 7 or its equivalent.

20—Comparative morphology of the heart and vascular system—Development and modification of the venous system in vertebrates. Professor HUNTINGTON and Dr. DARRACH

21—Comparative morphology of the alimentary tract and digestive glands—Anatomy of the peritoneum. Professor HUNTINGTON and Dr. DARRACH

22—Comparative morphology of the cæcum and ileo-colic junction in vertebrates—Detailed study of the modification of the structures and their vascular and serous relations. Professor HUNTINGTON and Dr. DARRACH

23—Topography of the pelvic viscera, muscles, and fasciæ. Professor HUNTINGTON and Dr. DARRACH

24—Anatomical technology and museum methods. Professor HUNTINGTON and Dr. DARRACH

25—Course of lectures on variation and heredity given at the beginning of the year. Dr. FLOYD

In all courses offered in morphology the work is designed to be laboratory exercises of at least two continuous hours' duration, at any one exercise, supplemented in certain courses by demonstration and study of material contained in the Museum of Human and Comparative Anatomy and in the study collections of the department.

The time required for the above courses, if offered as minors for the



degree of A.M. or Ph.D., or if taken as optionals, is half a day per week from October to April.

The demands on laboratory space and teaching force render it necessary to limit the number of candidates admitted to these courses.

A series of university lectures and demonstrations based on the material contained in the morphological museum is given annually.

These lectures are incorporated in Course 1 and deal with the comparative anatomy of the circulatory, respiratory, alimentary, and uro-genital systems of vertebrates, together with certain portions of the skeletons, as the pectoral and pelvic girdles. The lectures are open to students under the Faculty of Pure Science. Details of subjects and dates will be furnished on application to the department.

### **Fellowships**

For the fellowships open to persons desiring to do special work under the Professor of Anatomy, see page 46.

### **Anatomical Laboratories**

The laboratory facilities of the Department of Anatomy are very complete. The large general dissecting-room accommodates from 390 to 546 students at a time, working in groups of five or seven, respectively, at one table.

The plant for the production of artificial cold by the anhydrous-ammonia process has enabled the department, through the means offered for the indefinite preservation of fresh subjects by the cold-storage system, greatly to increase the amount of material available for laboratory work, and has also rendered it possible so to regulate the temperature of the general laboratory that the work can be carried on without difficulty during the warmer months at the beginning and close of the academic year.

The laboratory for advanced morphological research occupies the third story of the anatomical building. Every facility for advanced and research work in morphology is here extended. The established connections of the department furnish abundant human and comparative material, both mature and embryonal. The private library of the Professor of Anatomy is at the disposal of advanced workers.

### **Museum of Human and Comparative Anatomy**

Much work has been done in the formation of a Museum of Human and Comparative Anatomy, the ultimate design of which is to present, in as complete a manner as possible, a view of the evolution of the forms of animal life, and of their natural relations, both in series of natural groups, and in the comparative and relative position of organs and systems. Even the approximate attainment of this aim will require much time and work, but sufficient progress has been made to enable the department to offer great facilities for study and research. The

collection, both as regards groups and the individual preparations, is designed for the illustration of both elementary and advanced courses, and is largely used in the instruction of the medical undergraduates and in advanced study and research. The anatomical building provides the opportunity for the further development of this invaluable portion of the departmental equipment. The first and second stories of the building are devoted to the morphological museum, and it is hoped that in the space thus provided the continued development of scientific anatomy, both for purposes of undergraduate instruction and of advanced research, will steadily proceed.

In addition to the museum collection proper the department is constantly adding to a large collection for advanced study and research.

A study-collection of human osteological preparations is so administered as to enable every student to take out the different osteological series and retain them for private study as long as required.

### Anthropology

FRANZ BOAS, Ph.D.....	<i>Professor</i>
LIVINGSTON FARRAND, A.M., M.D.....	<i>Professor</i>
MARSHALL H. SAVILLE.....	<i>Loubat Professor of American Archaeology</i>
CLARK WISSLER, Ph.D.....	<i>Assistant</i>
WILLIAM JONES, Ph.D.....	<i>Assistant</i>

Courses 1 and 7 are open to juniors; and 2, 4, 5, and 8 are open to seniors in Columbia College and in Barnard College. All courses except 1 and 7 may be counted towards the degree of A.M. and Ph.D., and all except 3 are open to women and auditors.

### Courses

1—Anthropology, general introductory course—Lectures, essays, and discussions. 2 hours. Professor FARRAND

7—General ethnography—Lectures, essays, and discussions. 2 hours. Professors BOAS and FARRAND

8—Ethnography of Asia—Lectures, essays, and discussions. 2 hours. Professors HIRTH, PRINCE, and FARRAND

2—The statistical study of variation, introductory course—Lectures essays, and discussions. 2 hours lectures, 2 hours laboratory, first term. Professor BOAS

9—The statistical study of variation, advanced course—Lectures, essays, and discussions. 2 hours lectures, 2 hours laboratory, second term. Professor BOAS

3—Ethnology—Primitive culture—Lectures, papers, and discussions. 2 hours. Professor FARRAND

[4—Physical anthropology—Lectures and laboratory work. 2 hours. Professor BOAS

*Not given in 1903-04]*

5—American languages—Lectures and discussions. 2 hours. Professor BOAS

6—Anthropological research. Professors BOAS and FARRAND

10—Archæology of Mexico and Central America—Lectures and discussions. 2 hours. Professor SAVILLE

The collections and apparatus of the American Museum of Natural History may be used by students of Anthropology. An Anthropological Laboratory has been fitted up in the Museum in which practical work may be carried on by students. The extensive collection of crania and skeletons and the ethnological and archæological material in the Museum are utilized in connection with the lectures given in the department and are available for research work.

For Extension courses in Anthropology, see the special announcement of such work issued by Teachers College.

### Architecture

ALFRED D. F. HAMLIN, A.M.....*Adjunct Professor of Architecture*  
 FRANK DEMPSTER SHERMAN, Ph.B...*Adjunct Professor of Architecture*  
 MAXIMILIAN K. KRESS, A.M....*Curator and Lecturer in Architecture*  
 GRENVILLE T. SNELLING, B.S...*Instructor in Architectural Engineering*  
 CHARLES A. HARRIMAN.....*Instructor in Architectural Drawing*  
 ALFRED H. GUMAER, B.S.....*Instructor in Architectural Design*  
 CHARLES P. WARREN, A.M.....*Tutor in Architectural Construction*  
 W. A. DELANO, A.B.....*Tutor in Architectural Drawing and Design*

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WILLIAM R. WARE, LL.D.....*Emeritus Professor of Architecture*

The first three years are given to parallel courses in drawing and design, in history and ornament, and in mathematics, architectural engineering, specifications, and building materials, with exercises in the reading of French and German text-books and the writing of English. In the second and third years there are lectures on the theory of architecture and on the decorative arts. Many of these subjects are given in alternate years, two classes taking them together. In the fourth year the students have the choice of an advanced course in history and design, or of an advanced course in scientific and practical construction.

Still more advanced courses both in design and in construction are offered to graduates of schools of science and schools of architecture, and professional draughtsmen of mature age are received as special students, not candidates for a degree, into such courses as they are qualified to pursue.

In alternate years are awarded a travelling fellowship, established by the Trustees in recognition of the liberality of Mr. F. A. Schermerhorn to this department, and two travelling fellowships, the gift of

Mr. C. F. McKim. Every fourth year is awarded a travelling fellowship, the bequest of the late Willard B. Perkins.

Courses 1, 2, 3, 4, 5, 6, 8, 10, 11, 13, 20, 21, 22, and 23 are open as electives to seniors in the College.

*For a detailed description of the work in Architecture, consult the Fine Arts Announcement.*

### Courses

1—Ancient architectural history. 3 hours, first year. Mr. KRESS

[2—Mediæval architectural history—Byzantine, Romanesque, Gothic. 2 hours, with reading of a German text-book by the second class (see 7), and 13 hours original research in library and drawing-room during 6 weeks of second half-year (see 9). Exercises in historical design (see 21). Every other year to the second and third classes together (alternating with 3). Professor HAMLIN and Mr. KRESS.

*Not given in 1903-04]*

3—Modern architectural history—The Renaissance, modern revivals, Oriental and American architecture. 2 hours, with reading of a German text-book by the second class, and 13 hours research in library and drawing-room during 6 weeks of second half-year. Exercises in historical design. Every other year to the second and third classes together (alternating with 2). Professor HAMLIN and Mr. KRESS

4—History of ancient ornament—The decorative forms of Egyptian, Assyrian, Greek, and Roman art. 1 hour, first year. Professor HAMLIN

[5—History of mediæval ornament—Byzantine and Gothic ornament. 1 hour. Every other year to the second and third classes together (alternating with 6). Professor HAMLIN.

*Not given in 1903-04]*

6—History of modern ornament—Renaissance, Oriental, and modern ornament. 1 hour. Every other year to the second and third classes together (alternating with 5). Professor HAMLIN

7—Archæology—(7.1). 2 hours, first year, in French. (7.2) 2 hours, second year, in German (see 2 and 3). Mr. KRESS

8—Theory of architecture—(8.1) Elements of planning and composition, in connection with 21.2. 1 hour, second year. Mr. GUMAER. (8.2) Theory of design: planning and composition; scale; proportion, expression, and decoration. (8.3) The decorative arts and theory of color. 1 hour, third year. Professor HAMLIN. (8.4) Advanced theory and professional practice. 1 hour, 12 weeks, fourth year. Professor HAMLIN

9—Architectural essays—4 to 6 essays in connection with historical research, second term, second and third years (see 2 and 3). Occasional written exercises in connection with lectures of Courses 1 to 6



inclusive. One essay and thesis dissertation in fourth year. Professor HAMLIN and Mr. KRESS

10—Graphics—Projections, intersections, and shades and shadows. 2 hours lectures, first year. 2 hours in draughting-room. Professor SHERMAN

11—Perspective. 1 hour lecture, 1 hour practice, second year. Twelve plates required. Professor SHERMAN

12—Descriptive geometry. 2 hours, second year. Twelve plates required. Professor SHERMAN

13—Specifications—(13.1) Masonry; woodwork; iron-work; plumbing. The class copy a model specification and are examined upon the lectures. 2 hours, third year. 6 hours in the draughting-room every other week. (13.2) Building materials—Building-stones, artificial stones, cements, asphalts, terra-cotta. Growth and preservation of wood; paints, glass. Metals, fire-proofing. 2 hours, third year. (13.3) Advanced practice—The study of building processes. 2 hours, and 15 hours practice in fourth year (for students electing 14.6). Mr. WARREN

14—Architectural engineering. (14.1) Analytical geometry. (14.2) The differential calculus. 3 hours, first year. (14.3) The integral calculus. (14.4) Analytical mechanics: statics, elementary dynamics. 3 hours, second year. Professor SHERMAN. (14.5) Applied mechanics. 5 hours, third year. 6 hours in the draughting-room every other week. Mr. SNELLING. (14.6) Advanced architectural engineering; practical examples in applied mechanics, treated both graphically and analytically: problems in structural design. 15 hours, fourth year. Mr. SNELLING, in collaboration with Department of Civil Engineering under Faculty of Applied Science. (To be taken in connection with 13.3 Not required of students taking 21.4)

20—The elements of architecture—The orders, etc. Twenty-four plates required. 1 hour lecture, first year. Mr. GUMAER

21—Architectural design. 1 hour, first year; 13 hours, first half of second and third years; 25 hours, fourth year. Problems in design: plans, elevations, sections, and details. (21.1, 21.2, 21.3, 21.4) Mr. GUMAER and Mr. DELANO

In the second year the problems involve special drill in the use of the orders; in the third year, in planning and composition.

In the second and third years the afternoons of six weeks of the second half-year are occupied by historical study; but there are also a limited number of problems in historical design (see 2 and 3).

In the fourth year problems of an advanced character alternate with sketch-designs or exercises in rapid invention and delineation; the greater part of the second term being devoted to the graduation thesis, which is the solution of an elaborate problem in design, with accompanying dissertation.

22—Architectural drawing—Drawing and rendering of plans, elevations, sections, and details with pen and with brush, in India ink and water-color; skies, clouds, backgrounds, foliage, and accessories;

measured drawings from buildings. 12½ hours, first year. Mr. HARRIMAN

23—Freehand drawing—Sketching and drawing with pencil, charcoal, and brush, from flat copy, casts, and living model; water-colors and modelling; from 4 to 6 hours throughout four years. (23.1, 23.2, 23.3, 23.4) Mr. HARRIMAN and Mr. DELANO

24—Summer work—Drawings and studies, including measured drawings from buildings, made during vacations between first and second years (24.1), second and third years (24.2), and third and fourth years (24.3).

25—Thesis—A problem in advanced design or in original research, with written dissertation and drawings. 25 hours, second half of second term, fourth year. Professor HAMLIN and Mr. DELANO

114—University course in architectural engineering and practice. 32 hours. Mr. SNELLING and Mr. WARREN, in collaboration with Department of Civil Engineering under Faculty of Applied Science

121—University course in architectural design. 30 hours. Four special problems, occupying two months each. Professor HAMLIN and Mr. DELANO

These two university courses are open to graduates of schools of architecture and to men of like standing who are qualified to take them. They count towards the degrees of Master of Arts and Doctor of Philosophy.

Experienced draughtsmen and other properly qualified candidates are received as special students for periods of two months at a time or for the academic year.

For Extension courses in Architecture and Fine Arts see the special announcement of such work issued by Teachers College.

### Equipment

The equipment of the department consists of about 18,000 photographs, about 900 books, a classified library of prints and plates, the Avery Architectural Library of about 13,500 volumes, a collection of MS. drawings from the *École des Beaux-Arts*, a collection of casts of architectural details from ancient and modern Roman buildings, a collection of building-stones, tools, and materials, and about 7500 lantern slides of architectural subjects. The Willard collection of architectural casts at the Metropolitan Museum is open to students every day and two evenings every week.

### Astronomy

JOHN KROM REES, E.M., Ph.D. <sup>1</sup> .....	Professor
HAROLD JACOBY, Ph.D.....	Adjunct Professor
S. ALFRED MITCHELL, Ph.D.....	Tutor
CHARLES LANE POOR, Ph.D.....	Lecturer

<sup>1</sup> Absent on leave.

### Preliminary Statement

For a more detailed statement in regard to courses the inquirer is referred to the *Announcement of the Division of Mathematical and Physical Science*.

Courses 1, 2, 30, 31, 32, 33, are open to properly qualified seniors in Columbia College.

Courses 1 and 2 are open to seniors in Barnard College; no courses are given separately at Barnard College.

All courses may be counted towards the degree of Master of Arts or Doctor of Philosophy; all, except 30, 31, 32, 33, are open to graduate women students upon the same terms as to men.

All courses are open to auditors.

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The following courses, or their equivalents, are required as pre-requisites from candidates for higher degrees.

For Course 1, Physics 1 or 4, and Mathematics 3a and 5; for Course 2, Physics 1 or 4, and Mathematics 6; for Course 30, Physics 1 or 4, Mathematics 6, and Civil Engineering 15 and 16; for Course 31, Astronomy 30; for Course 32, Astronomy 31; for Course 33, Astronomy 32; for Courses 4, 5, 6, and 8, Astronomy 1 and 2; for Course 7, Astronomy 30 to 33 (inclusive) or 4; for Course 9, Astronomy 8; for Course 10, Astronomy 1, and Mathematics 6.

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Courses 1, 2, may be offered as a minor for the degree of A.M.; 30, 31, as a half-minor for A.M.; 32, 33, as a half-major for A.M.

First year of Courses 4, 5, 6, 7, 8, may be offered as a major for the degree of A.M. or a minor for the degree of Ph.D.

Full two years of Courses 4, 5, 6, may be offered as a major for the degree of Ph.D.

Courses 30, 31, are required of students in the Civil and Sanitary Engineering courses during the third year, 32 between the third and fourth years, 33 in the fourth year.

### Courses

1—General Astronomy—Historical and descriptive. 2 hours. Dr. POOR

2—Spherical and practical astronomy—Mainly the study and use of the sextant for time and latitude determinations, and the transit instrument for time. 2 hours lectures and 2 hours observatory work. Dr. MITCHELL

30—Geodesy—A brief history of geodetic operations and description of theodolites, base apparatus, and other instruments used in geodetic work, including their adjustment and use. 2 hours a week for one half-year, September to February. Dr. MITCHELL

31—Geodesy—The applications of practical astronomy to geodetic surveying. 2 hours a week for one half-year, February to June. Dr. MITCHELL

32—Geodesy—Summer school in practical geodesy. Given in the field, each student making his own observations and calculations.

Six weeks of practical work from May 30 to July 9. Professor JACOBY and Dr. MITCHELL with assistants.

33—Geodesy—Gives the derivation of formulæ used in the summer-school work, the adjustment of observations, and concludes with lectures on descriptive astronomy. 2 hours a week for one half-year, September to February. Professor JACOBY

4—Advanced spherical and practical astronomy—Deals with the subjects of time, latitude, and longitude. 2 hours lectures and 4 hours observatory work for two years. Dr. MITCHELL

5—Theoretical astronomy—Theory of comet orbits with practical applications. 1 hour, supplemented by computation, for two years. Professor JACOBY

6—Theory and method of reduction of photographic star plates—Determination of star places from photographic plates, stellar parallax, and proper motion. 1 hour, with practical work, for two years. Professor JACOBY

7—Method of least squares, with applications to astronomy and geodesy. 1 hour for one year. Professor JACOBY

8—Lectures on celestial mechanics—Elementary course. 1 hour for one year. Dr. POOR

[9—Advanced course in celestial mechanics. 1 hour for one or two years.

*Not given in 1903-04.]*

10—Astronomical spectroscopy. 1 hour supplemented by laboratory work. Dr. MITCHELL

For Extension courses in Astronomy, see the special announcement of such work issued by Teachers College.

### Astronomical and Geodetic Equipment

This includes a very complete collection of instruments for the application of astronomy to geodesy, such as are employed in determining latitude and longitude at primary geodetic stations of the first importance.

(1) A Wanschaff zenith telescope of 8-cm. aperture, suitable for latitude measures of the highest precision. This is the instrument used continuously in studying variation of latitude and the constant of aberration at Columbia University during the years 1893 to 1900. It is now available for student work.

(2) A Bamberg universal combined prismatic transit and zenith telescope of 10-cm. aperture. This instrument has just been received from Berlin, and will be mounted at the University during 1903-04. It is probably the finest instrument of its class yet constructed.



- (3) A Wanschaff 8-inch microscope theodolite.
- (4) A Fauth 10-inch microscope theodolite.
- (5) A Fauth 8-inch microscope theodolite.
- (6) A U. S. Coast Survey pattern secondary bar base apparatus.
- (7) A tape base apparatus, with stretching machines.
- (8) Complete outfit of engineer's instruments, sextants, apparatus for barometric hypsometry, clocks, chronometers, chronographs, etc.

For the advanced study of astronomy proper, there are special instrumental facilities in Course 6. Two Repsold photographic measuring machines of the latest type are mounted for use, and the department has a large collection of astronomical photographs suitable for measurement and reduction by students desiring to make researches in stellar parallax, inter-stellar motion, etc. These photographs were made by Rutherford at New York, Donner at Helsingfors, Henry at Paris, etc.

For students in Courses 1, 2, and 4 there are several portable equatorials; and the instruments already mentioned in connection with geodesy are also available.

In addition to the above, the University possesses a number of unmounted instruments; among them the late Lewis Morris Rutherford's famous 13-inch equatorial, with its spectroscopic, photographic, and visual attachments.

## Bacteriology and Hygiene

(See page 164)

## Botany

LUCIEN MARCUS UNDERWOOD, Ph.D.....	<i>Professor</i>
NATHANIEL LORD BRITTON, Ph.D.....	<i>Emeritus Professor</i>
FRANCIS ERNEST LLOYD, A.M....	<i>Adjunct Professor (Teachers College)</i>
HERBERT MAULE RICHARDS, Sc.D..	<i>Adjunct Professor in Barnard College</i>
CARLTON CLARENCE CURTIS, Ph.D.....	<i>Tutor</i>
ADA WATTERSON, A.M.....	<i>Tutor (Teachers College)</i>
TRACY ELLIOT HAZEN, Ph.D.....	<i>Tutor in Barnard College</i>
HOMER DOLIVER HOUSE, B.S.....	<i>Assistant</i>
ALICE ADELAIDE KNOX, A.B.....	<i>Assistant in Barnard College</i>

Certain graduate courses at the New York Botanical Garden are also given, either wholly or in part, by the following members of the Garden Staff:

DANIEL TREMBLY MACDOUGAL, Ph.D....	<i>Director of the Laboratories</i>
JOHN KUNKEL SMALL, Ph.D.....	<i>Curator of the Museums</i>
PER AXEL RYDBERG, Ph.D.....	<i>Assistant Curator</i>
ARTHUR HOLLICK, Ph.D.....	<i>Assistant Curator</i>
MARSHALL AVERY HOWE, Ph.D.....	<i>Assistant Curator</i>
FRANKLIN SUMNER EARLE, A.M.....	<i>Assistant Curator</i>
GEORGE VALENTINE NASH.....	<i>Curator of the Plantations</i>
HENRY HURD RUSBY, M.D.....	<i>Curator of Economic Collections</i>

Partial courses are also given by:

ELIZABETH GERTRUDE BRITTON

EDWARD SANDFORD BURGESS, Ph.D.

The undergraduate courses in Botany are arranged with the intention of giving a broad general knowledge of the subject during the first year, and permitting some degree of choice during the second year; for those who continue the work as a graduate subject, the widest possible range of courses is open to the student's choice. Course 1 can be elected by any student who has reached the sophomore year, and if the subject be pursued consecutively for three years, the candidate will be ready to enter upon research work as a major subject. Two years would be sufficient for this preparation if the candidate elected two courses in Botany during the second year. Courses 1-4, or their equivalent, together with Course 5 or Course 7, according as the trend is toward morphology or physiology, form the necessary preparation for commencing a major subject in Botany. Course 1, with any two additional courses or an equivalent, will be required as the necessary preparation for commencing a minor subject in Botany. Minor graduate courses will be arranged after conference with the head of the department.

Auditors will be admitted to any courses for which they may be prepared.

Courses 9-31 are research courses, primarily for graduate students; all are open to women. Each consists of field or laboratory work, or both, for not less than ten hours a week for one year. 14 and 15 normally require two years, including summer work in the field, and 12, 13, 27, 28, 29, three years each.

Courses 51-58 are given at Barnard College, and are primarily undergraduate courses for women.

Courses 9-11, 16-26, and 31 may be taken as major work for A.M.

Course 3 combined with Course 7, or a proportionate amount of work in Courses 9, 10, 16, 18, 19-25, may be taken as minor work for A.M.

Courses 12-15, 27-30 may be taken as major work for Ph.D.

Any two of the Courses 9, 10, 11, 16-25, 31, or a proportionate amount of work in Courses 12, 13, 14, 27, 28, 29, 30, may be taken as minor for Ph.D. In some cases the accomplishment of an approved piece of research may be offered as a minor for Ph.D.

Course 1 or its equivalent is pre-requisite for all succeeding courses, except Course 8.

Course 2 is pre-requisite for Courses 5, 9, 14, 21, 26, 30, 31.

Course 3 is pre-requisite for Courses 11, 12, 16, 17, 27, 28, 30.

Course 4 or its equivalent is pre-requisite for Courses 9 (if offered as a major for A.M.), 10, 14 (if subject chosen is a group of cryptogams) 18, 19, 20, 22, 23, 24, 25, 30.

Course 5 is a pre-requisite for Courses 9 (if offered as a major for A.M.), 11, 13, 18, 19, 20, 21, 30.

Course 7 is a pre-requisite for Courses 12, 16, 17, 27, 28, 30.

Course 8 is required of first-year students in Civil Engineering.

Graduate students preparing for the profession of teaching are expected to take Education 12 at some time during their course of study.

### Courses

1—Elementary botany—The general biological features of plants and the outlines of the evolution of plant types are considered; special attention being given to the significance of morphological characters and the forces operative in their development. 2 lectures and 4 hours laboratory work a week, counting as a 4-hour course. Dr. CURTIS

2—Comparative morphology of plants—Involving field work on adaptation of structure to physical conditions. 2 laboratory sessions a week, first half-year. Dr. CURTIS

3—Plant physiology—A course in experimental physiology supplemented by selected readings and conferences. 2 laboratory sessions a week, first half-year. Dr. CURTIS

NOTE.—In this and other courses in plant physiology the nature of the work occasionally requires attendance at the laboratory at unusual times.

4—General morphology of cryptogams—Detailed study of some group or groups of the lower plants. 2 laboratory sessions a week, second half-year. This course naturally follows Course 2, to complete an elective for the year. Mr. HOUSE

5—Botanical problems—Illustrating advanced methods of fixing, imbedding, sectioning, and staining. 2 laboratory sessions a week, second half-year. Dr. CURTIS

6—Economic botany—Study of plants useful to man as food, medicine, timber, and fibre. 2 hours lecture, or the equivalent in the laboratory. Professor UNDERWOOD

7—Plant physiology—A continuation of Course 3. 2 laboratory sessions a week, second half-year. Dr. CURTIS

8—Lectures on general botany—A brief review of plant structure and function, and the characters and relations of the leading groups of plants, with special attention to the study of timber trees and their identification. 1 lecture, assigned reading, field and laboratory work, first half-year. Professor UNDERWOOD and Mr. HOUSE

9—Taxonomy of spermatophyta—Study of the principal families. Professor BRITTON, Dr. SMALL, Dr. RYDBERG

10—Morphology of fungi—Study of the structure, polymorphism, and development of the fungi, including culture methods. Mr. EARLE

11—Experimental morphology—A study of the variation of form and structure, and the determination of the causes. Dr. MACDOUGAL, Professor LLOYD, Dr. CURTIS

12—General physiology—Problems in absorption, excretion, nutri-



tion, and transformation of energy, growth, the general irritable organization of the plant, and the mechanism of its movements. Laboratory. Dr. CURTIS, Dr. MACDOUGAL, Professor RICHARDS

13—Embryology of spermatophyta—Comparative embryology of special groups. Special embryological problems. Technique. Professor LLOYD

14—Special taxonomy—Critical study of a family or genus of plants of not less than fifty species. The group may be chosen from the entire range of the plant world. Field, herbarium, laboratory, and garden work. Directed, according to the group chosen, by Professor UNDERWOOD, Professor BRITTON, Dr. SMALL, Dr. RYDBERG, Dr. HOWE, Mr. EARLE, Mr. NASH, Professor BURGESS

15—Regional botany—Collection, determination, and comparative study of the plants of some restricted area. Professor UNDERWOOD, Professor BRITTON. This course requires a previous experience of not less than three years in botany

16—Physiology of the cell—Problems in the chemical and the physical properties, movements, and irritability of unicellular and other generalized organisms. Dr. MACDOUGAL

17—Plant geography—Occurrence, characters, and arrangement of groups and formations. Relations of plant societies to one another, and to topographic, climatic, and other conditions. Factors governing distribution. Professor BRITTON, Dr. MACDOUGAL, Professor LLOYD, Dr. CURTIS

18—Morphology of algæ—Study of the structure and development of algæ. Dr. HOWE, Professor RICHARDS, Dr. HAZEN

19—Morphology of bryophyta—Study of the structure and development of the musci and hepaticæ. Professor UNDERWOOD, Dr. HOWE, Mrs. BRITTON

20—Morphology of pteridophyta—Study of the structure and development of the ferns and fern-allies. Professor UNDERWOOD

21—Morphology of spermatophyta—Study of the structure and development of the flowering plants. Professor LLOYD, Dr. CURTIS, Dr. RYDBERG

22—Taxonomy of algæ—Study of the diagnostic characters and relationships of the principal families and genera. Dr. HOWE, Dr. HAZEN

23—Taxonomy of fungi. Professor UNDERWOOD, Mr. EARLE

24—Taxonomy of bryophyta. Professor UNDERWOOD, Dr. HOWE, Mrs. BRITTON

25—Taxonomy of pteridophyta. Professor UNDERWOOD

26—Taxonomy of gramineæ. Mr. NASH

27—Physiology of nutrition—Treated from a chemical standpoint. Professor RICHARDS



28—Ecological physiology—Problems in adaptive reactions in form, structure, and movements to external energy and environmental factors. Dr. MACDOUGAL, Dr. CURTIS

29—Physiological anatomy—Problems in the relationships of tissues and functions. Dr. CURTIS

30—Mycological pathology—Study of diseases caused by parasitic fungi, with special attention to the morphology of the pathological organism. Also problems in immunity, and effects of unfavorable environment. Mr. EARLE

31—Developmental taxonomy—Fossil ancestors of some family of plants. Comparative study of form and structure. Dr. HOLLICK

51—Elementary botany. 3 hours. Professor RICHARDS

52—General morphology and development of plants. 4 hours. Dr. HAZEN

53—Morphology and ecology of spermatophytes. 2 hours. Dr. HAZEN

54—Anatomy of vascular plants. 2½ hours, first half-year. Professor RICHARDS

55a—Physiology of plants from standpoint of nutrition. 2½ hours, alternate second half-years. Professor RICHARDS

55b—Physiology of plants from standpoint of growth. 2½ hours, alternate second half-years.

56—Structure and development of algæ. 2 hours, one half-year. Professor RICHARDS

57—Structure and development of fungi. Advanced course. 2 hours, one half-year. Professor RICHARDS

58—Developmental anatomy—Practice in methods of technique. 2 hours, one half-year. Professor RICHARDS and Dr. HAZEN

59—Advanced physiology and morphology. 6 hours. Professor RICHARDS and Dr. HAZEN

### Equipment

The department of Botany occupies the third floor of Schermerhorn, and the laboratories and lecture-rooms are thoroughly equipped for undergraduate work. A large general laboratory, lecture-room, and morphological and physiological laboratories are supplied with modern instruments for instruction and experiment. A sufficient number of standard botanical works and serials on the subject are reserved for students' use in the general laboratory.

Graduate courses are conducted at the museum of the New York Botanical Garden. By the agreement entered into between the University and the Garden, all the botanical collections and library of the University (except such works as are needed in the undergraduate courses) have been deposited in the museum of the Botanical Garden

at Bronx Park; the Garden on its part supplies all needed facilities for research for members of the staff and for properly accredited students. This combination of forces not only places the department of Botany within reach of material equipment and collections not otherwise available, but opens up facilities for research work under conditions that are not excelled.

The museum of the New York Botanical Garden is located in Bronx Park, and its entire upper floor is devoted to research. The physiological and morphological laboratories occupy the western end, and the taxonomic laboratories and herbarium the eastern end. The present floor space is more than 19,000 square feet. Among the special features provided are to be mentioned the dark rooms, photographic, operating, and balance room, laboratory for physiological chemistry, constant-temperature chambers, and sky-lighted apartment for living plants which is furnished with a suitable aquarium. Ample opportunity for experimental work is afforded by the open-air plantations and extensive horticultural houses.

The Columbia herbarium and the equally extensive collections of the New York Botanical Garden are housed in the large room in the east wing of the Botanical Museum. The cryptogamic collections are arranged in special rooms. The entire aggregation of collections available for students is exceptionally full in every group of plants, from slime moulds to composites.

The portion of the University Library classified under Botany is deposited in the library stack-room of the Museum building, where it can be consulted in connection with the extensive supplementary collection now owned by the New York Botanical Garden. There are about 5000 bound volumes and 4000 pamphlets and extracts; the Garden library supplements this by over 9000 volumes. All the regularly published journals devoted to Botany proper (about seventy-five) are received, and the sets of all are complete.

Two series of publications are issued from the department: a quarto series known as the *Memoirs of the Department of Botany*, of which two volumes have been published; and the *Contributions from the Department of Botany*, in octavo, which have commenced the ninth volume.

### Chemistry

CHARLES F. CHANDLER, M.D., Ph.D., LL.D., D.Sc. . . . . *Professor of Chemistry*

JOHN FRANCIS WOODHULL, A.B., Ph.D. . . *Professor of Physical Science (Teachers College)*

CHARLES E. PELLEW, E.M. . . . . *Adjunct Professor of Chemistry*

EDMUND H. MILLER, Ph.D. . . *Adjunct Professor of Analytical Chemistry and Assaying*

MARSTON TAYLOR BOGERT, A.B., Ph.B. . . . . *Adjunct Professor of Organic Chemistry*

- J. LIVINGSTON RUTGERS MORGAN, Ph.D. . . . . *Adjunct Professor of Physical Chemistry*
- WILLIAM J. GIES, M.S., Ph.D. . . . . *Adjunct Professor of Physiological Chemistry*
- MARGARET E. MALTBY, Ph.D. . . . . *Adjunct Professor of Physics (Physical Chemistry) (Barnard)*
- JAMES S. C. WELLS, Ph.D. . . . . *Instructor in Analytical Chemistry (Qual.)*
- HERMANN T. VULTÉ, Ph.D. . . . . *Instructor in Chemistry (School of Medicine)*
- HENRY C. SHERMAN, Ph.D. . . . . *Instructor in Analytical Chemistry*
- LOUIS H. LAUDY, Ph.D. . . . . *Tutor in Chemistry*
- SAMUEL A. TUCKER, Ph.B. . . . . *Tutor in Industrial Chemistry*
- GEORGE A. GOODELL, A.M. . . . . *Tutor in Chemistry (School of Medicine)*
- CAVALIER HARGRAVE JOÛET, Ph.D. . . . . *Tutor in Analytical Chemistry*
- ALFRED N. RICHARDS, A.M., Ph.D. . . . . *Tutor in Physiological Chemistry*
- VICTOR J. CHAMBERS, Ph.D. . . . . *Tutor in Organic Chemistry*
- EVERETT J. HALL. . . . . *Tutor in Analytical Chemistry and Assaying*
- ARTHUR C. NEISH, A.M. . . . . *Tutor in Chemistry*
- CHARLES H. ELLARD, A.M. . . . . *Tutor in Analytical Chemistry (Qual.)*
- HAL T. BEANS, B.S., A.M. . . . . *Tutor in Analytical Chemistry (Qual.)*
- MARIE REIMER, Ph.D. . . . . *Lecturer in Chemistry (Barnard)*
- ELEANOR KELLER, A.B. . . . . *Lecturer in Chemistry (Barnard)*
- MAY BELLE VAN ARSDALE. . . . . *Assistant in Physical Science (Teachers College)*
- WILLIAM C. UHLIG, B.S. . . . . *Assistant in Chemistry (School of Medicine)*
- EDWARD R. POSNER, M.D. . . . . *Assistant in Physiological Chemistry*
- HENRY A. JACKSON, B.S. . . . . *Assistant in Physical Chemistry*
- FREDERICK VAN DYKE CRUSER, B.S. . . . . *Assistant in Analytical Chemistry (Quant.)*
- HELEN ISHAM, A.B. . . . . *Assistant in Organic Chemistry (Barnard)*
- JOHN B. LUTHER. . . . . *Assistant in Analytical Chemistry (Qual.)*
- For all detailed information in regard to the courses, subjects discussed, pre-requisites, etc., refer to the special Announcement of the Division of Chemistry.*

Courses 4, 10, 17, 18, 19, 21, 24, 26, 28, 38, are open as minors for A.M.

Courses 4, 9, 13, 16, 21, 22, 25, 36, are open as majors for A.M.

Courses 4, 13, 16, 17, 18, 22, 28, 38, are open as minors for Ph.D.

Courses 5, 8, 14, 15, 23, 29, 36, are open as majors for Ph.D.

All courses except 5, 8, 13, 14, 15, 16, 18, 22, 23, 25, 28, 29, 33, 35, 36 are open to properly qualified students of Columbia College.

### Courses

6—General elementary chemistry. 2 lectures, 1 recitation, and 2 afternoons laboratory practice, one half-year. Given both half-years. Mr. NEISH

1—General inorganic chemistry. 3 lectures and 1 recitation. Professor CHANDLER, Dr. LAUDY, Mr. TUCKER, and Mr. NEISH

10—Advanced inorganic chemistry. 2 lectures. Professor PELLEW  
3—Elementary physical chemistry. 3 hours a week in lectures and recitations, and 4 hours a week in the laboratory. Professor MORGAN and Mr. JACKSON

4—Physical chemistry. 3 hours a week in lectures and recitations throughout the year, and 1 afternoon a week in the laboratory, first half-year. Professor MORGAN and Mr. JACKSON

37—Theoretical electrochemistry—A course of two lectures a week throughout the first half-year. Professor MORGAN

5—Physical chemistry, advanced course. 2 lectures, and at least 12 hours a week in the laboratory. Professor MORGAN

7—Qualitative analysis. 2 lectures or conferences a week during the first half-year, 3 lectures or conferences for chemists during second half-year, 2 lectures or conferences for other courses, and laboratory practice. Dr. WELLS, Mr. ELLARD, Mr. BEANS, and Mr. LUTHER

8—The spectroscope as applied to qualitative and quantitative analysis. 20 hours a week. Dr. WELLS

9—Quantitative analysis for chemists. 4 hours lectures and recitations a week, and 18 hours laboratory practice. Professor MILLER and Dr. JOÛET

11—Quantitative analysis, inorganic, short course for electric engineers. 2 hours lectures and recitations a week, and 6 hours laboratory practice during the first half-year. Professor MILLER and Dr. JOÛET

12—Quantitative analysis, inorganic, for mining engineers. 3 lectures and recitations a week during the second half-year, with laboratory practice, 18 hours a week in the second half-year. Professor MILLER, Dr. JOÛET, and Dr. SHERMAN

13—Quantitative analysis—Proximate organic and sanitary analysis for chemists. 2 lectures, 2 recitations, and laboratory practice 18 hours a week, first half-year. Dr. SHERMAN

14—Advanced inorganic analysis. 2 lectures a week. Laboratory practice 3 afternoons during the first half-year for students taking the course in Metallurgy, and 4 afternoons the second half-year for students in the course of Analytical Chemistry, who elect this course in place of Course 15. Professor MILLER

15—Advanced proximate organic analysis for chemists. 2 lectures a week. Laboratory practice during the second half-year, 4 afternoons for students in the course of Analytical Chemistry, who elect this course in place of Course 14. Dr. SHERMAN

19—Quantitative analysis, short course. 8 hours, conferences and laboratory work. Professor MILLER and Mr. CRUSER

16—Quantitative analysis—Special methods, gravimetric, volumetric, and electrolytic. Conferences and laboratory work at least 16 hours a week. Professor MILLER



17—Assaying—Ores and metallurgical products. 2 lectures or recitations, and laboratory practice 10 hours a week during the first half-year for mining engineers and metallurgists; during the second half-year for chemists. Professor MILLER and Mr. HALL

18—Special methods of assaying ores, alloys, and furnace products—Comparison of methods and determination of losses. Conferences and laboratory work at least 8 hours a week for one half-year. Professor MILLER and Mr. HALL

20—Organic chemistry, elementary lecture course. 2 lectures a week. Dr. CHAMBERS

30—Organic chemistry, elementary laboratory course. 8 hours a week. Dr. CHAMBERS

21—Organic chemistry. Comprehensive treatment of the subject—4 lectures and 1 recitation. Laboratory work for those pursuing the analytical or industrial options, 12 hours, first half-year. For those pursuing the organic option, 9 hours first half-year and 18 hours second half-year. Professor BOGERT and Dr. CHAMBERS

36—Organic chemistry. Conferences. 2 hours a week. Professor BOGERT

22—Advanced organic chemistry, laboratory courses. 12 hours per week. Professor BOGERT

23—Advanced organic chemistry, research. Professor BOGERT

24—Industrial chemistry, general course—3 lectures a week. Professor CHANDLER and Dr. LAUDY

25—Industrial chemistry, special course for chemists. 3 lectures for two years, one half the subject being discussed each year. Professor CHANDLER and Dr. LAUDY

26—Industrial chemistry, laboratory practice for chemists. 2 afternoons a week during the second half-year. Mr. TUCKER

27—Industrial chemistry, laboratory practice for chemists. Special applications. 2 afternoons a week during the first half-year. Professor PELLEW

28—Industrial chemistry, laboratory practice for chemists. Special applications. 5 afternoons a week during the second half-year. Mr. TUCKER

29—Industrial chemistry, advanced course for higher degrees. Original research. Personal instruction and laboratory work for one year. Professor PELLEW and Mr. TUCKER

39—Practical electrochemistry, laboratory course. 1 afternoon for part of second term. Mr. TUCKER

34—Chemical microscopy. 2 hours laboratory practice a week. Professor PELLEW

### Courses Given at Barnard College

The following courses are given separately at Barnard College: 1, by Miss REIMER; 4, by Professor MALTBY; 7, by Miss KELLER; 19, by Miss REIMER; 20, by Miss ISHAM; 30, by Miss ISHAM; 38, an advanced course in Organic Chemistry open as a minor for A.M. and Ph.D., by Miss REIMER.

### Courses Given at the College of Physicians and Surgeons

2—General inorganic chemistry. 2 lectures a week throughout the year. Professor PELLEW and Mr. UHLIG. 2 afternoon exercises in the laboratory and 2 conferences a week during the first term only. Dr. VULFÉ, Mr. GOODELL, and Mr. UHLIG

### In Physiological Chemistry

1—General physiological chemistry. Professor GIES and Drs. RICHARDS and HAWK

2—Laboratory course in advanced physiological chemistry. Professor GIES and Dr. RICHARDS

3—Laboratory course in special physiological chemistry. Professor GIES and Dr. HAWK

4—Physiological chemistry of plants. Professor GIES

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For further details see the special announcement of the Division of Chemistry.

For a description of the courses given at Teachers College and in the Summer Session, see the respective *Announcements*.

### Equipment

#### *Havemeyer Hall*

In Havemeyer Hall the Chemical Department is provided with ample space for its museum, lecture-rooms, and laboratories, and every convenience has been provided for both the instructors and students working in the general or special courses.

There are five chemical lecture-rooms, all fully supplied with apparatus and instruments, and equipped with pneumatic troughs, gas, pressure, exhaust, and electricity. The large chemical lecture-room on the ground floor contains 316 seats. Underneath the rear of this room is situated a large storeroom for lecture apparatus, and connected with it are convenient rooms for preparing the lecture experiments.

The museum of General Inorganic and Organic Chemistry and of the Chemical Arts, a large room occupying the whole left wing of the ground floor, contains the elements and all their more important compounds; representative sets of specimens of all classes of organic compounds; materials and products illustrating the chemical arts, and

numerous models, pictures, and diagrams illustrating the various branches of chemistry.

The Qualitative Laboratory is equipped with one hundred and eighteen desks, each divided into two sections, for use by different students, and each equipped with sink, water, gas, exhaust, and electric light. The laboratory has been entirely refurnished with sets of imported reagent bottles.

The Quantitative Laboratory is equipped with eighty-eight desks, each one provided with gas, water, pressure, exhaust, and electricity, besides electric lights. Attached to the main laboratory is a large and well-equipped balance room, containing accurate balances, and special rooms, which are provided with the latest and most improved apparatus for gas, water, food, and electrolytic analysis.

The Organic Laboratory contains forty large desks, each one provided with water, gas, pressure, exhaust, and electricity. The laboratory is also provided with high- and low-pressure steam, and with special rooms for balances, pressure ovens, glass-blowing, combustions, and for advanced work in various directions. It is thoroughly equipped with all necessary apparatus and instruments for the determination of boiling-points, melting-points, specific gravities, vapor densities, elementary analyses, and for the synthetic preparation of organic compounds.

The Laboratory of Industrial Chemistry is equipped for the instruction of students in the practical operations of chemical manufactures and chemical industries, and in the solution of various important problems in sanitary chemistry and hygiene. It is equipped for the manufacture of pure chemicals from their raw materials on an industrial scale, with fine batteries of steam evaporators, and with steam stills, centrifugals, filter presses, crushers, and the like. It includes a dyeing laboratory supplied with a large stock of the most important natural and artificial dye-stuffs, and with all the regular equipment used in the practical testing of dyes, including a calico-printing machine. Connected with it is a photometer room, containing a new and complete outfit for the practical testing of illuminants. Among the other subjects in which practical instruction is given in this laboratory may be mentioned the filtration and purification of water and sewage, fermentation and distillation, the use of the electric furnace, and the manufacture of sugar, petroleum products, and leather.

A laboratory has been fitted up for the study of electrochemistry, provided with an electric furnace and other appliances for the pursuit of this important branch of industrial chemistry.

The Laboratory of Physical Chemistry is well equipped with the most recent apparatus adapted to a wide range of experimental work in the branches of heat, light, and electricity as applied to chemical problems.

The Assay Laboratory is provided with crucible and muffle furnaces, both gas and coal, for the fire assay of ores; also with crushing, pul-

verizing, and sampling machinery, balance room, storeroom, and thirty-six well-equipped working desks. It also contains all the apparatus necessary for the wet assay of silver bullion and for laboratory tests of ores.

The Chemical Library in Havemeyer Hall is supplied with an extensive collection of chemical books and journals, and is open from 9.00 A.M. to 5.00 P.M., and during the session of the University from 8.00 to 11.00 P.M.

#### *College of Physicians and Surgeons*

The Laboratory of General Chemistry, at the College of Physicians and Surgeons, is located on the ground floor of the 60th Street building, and contains sixty large and commodious desks, each divided into two places. Attached to this is a large working room, used for preparations for the laboratory exercises, and also for the private work of the staff. Near by is an apparatus room containing numerous specimens and pieces of apparatus used in illustrating the lectures in General Chemistry, and also apparatus used by students in the laboratory.

#### *Barnard College*

The Department of Chemistry at Barnard College has laboratories well equipped with hoods and every facility for the proper study of the subjects offered. The desks have water, gas, and electricity.

There is a small library of useful reference books in chemistry to which the students have free access during the entire day.

#### *Teachers College*

The laboratories and lecture-room of Teachers College are well equipped for illustrating the teaching of Chemistry in Secondary and Normal Schools. In these the Chemistry classes of the Horace Mann School receive their instruction, and by observation and practical work in connection with the classes the students in Education 92 are enabled to become familiar with the duties of a teacher of Chemistry.

### **Chinese**

(See Oriental Languages)

### **Civil Engineering**

WILLIAM HUBERT BURR, C.E.....	Professor
EARL BRINK LOVELL, C.E.....	Adjunct Professor
<sup>1</sup> MYRON SAMUEL FALK, C.E., M.E.....	Instructor
BEN HARRISON BISBEE, C.E.....	Tutor
WILLIAM HENRY YATES, C.E.....	Assistant

*A complete, detailed statement of all the subjects covered by the course of study leading to the degree of Civil Engineer, both those given in the*

<sup>1</sup> Mr. A. Black having leave of absence for one year.



*Department of Civil Engineering and in other departments of the University, will be found in the Announcement of the Courses in Civil Engineering, which will be supplied, without cost, on application to the Secretary of the University.*

### Courses

1—Surveying—2 hours, second half, first year. Professor LOVELL and Mr. YATES

2—Road engineering—2 hours, first half, second year. Mr. FALK

3—Water supply and irrigation—2 hours, second half, fourth year. Mr. BISBEE

4—Masonry structures—2 hours, third year. Professor LOVELL and Mr. FALK

5—Resistance of materials—3 hours, first half, third year; 2 hours, second half, third year. Professor BURR, Professor LOVELL, Mr. FALK, and Mr. YATES

6—Graphic statics—2 hours, second half, third year. Mr. FALK

6a—Graphic statics for mining engineers—1 hour, second half, third year. Mr. FALK

7—Theory of trusses—2 hours, first half, third year. Mr. FALK

8—Sewage disposal—2 hours, first half, third year. Mr. BISBEE

9—Railroad engineering—3 hours, fourth year. Professor LOVELL

10—Design of bridges and buildings—2 hours, fourth year. Professor BURR and Mr. FALK

11—Foundations—2 hours, first half of fourth year. Professor BURR

12—Hydraulics—2 hours, first half of fourth year. Mr. BISBEE and Mr. FALK

12a—Pumps and pumping engines—1 hour, first half, fourth year. Mr. FALK

12b—Theory of mechanism—1 hour, first half, fourth year. Mr. FALK

13—Sewers and harbors—2 hours, second half of fourth year. Professor BURR and Mr. BISBEE

14—Theory of railroad surveying—3 hours, third year. Professor LOVELL

14a—Theory of railroad surveying—for mining engineers. 1 hour, first half, second year. Professor LOVELL

### The Summer Courses in Surveying

These courses are conducted during sixteen weeks each summer vacation at a point in the country near Litchfield, Conn., where ample facilities are provided for all requisite operations, and where the topog-

raphy is admirably adapted to the practical work of surveying. The operations at the summer school include the entire actual surveying of the Department of Civil Engineering, together with such lectures, computations, and mapping as pertain to it. About six weeks' continuous attendance is required of each class between the first and second, and the second and third years, and four weeks between the third and fourth years. The school possesses an unusually full equipment of engineers' and solar transits, levels, plane tables, compasses, and all accessories and smaller instruments. A corps of special assistants for each session aid the regular officers of the school. At each session the following courses are given:

15—Surveying between the first and second years—Pacing, chaining, and ranging—Farm survey—Adjustment of instruments—Angle reading by repetition—Repetition traverse—Azimuth traverse. Daily lectures, field and office work. Professor LOVELL, Mr. BISBEE and Mr. YATES

16—Surveying between the second and third years—Levelling—Topographical survey with plane table—City surveys—Mine surveying above ground—Use of solar attachment. Daily lectures, field and office work. Professor LOVELL, Mr. BISBEE, and Mr. YATES

16a—Hydrographic surveying—Triangulation—Topography on shore—Soundings—Current meter work—Computation of river or tidal discharge—Preparation of map. Professor LOVELL and Mr. YATES

17—Surveying between the third and fourth years—Railroad surveying—Reconnaissance—Preliminary survey—Location—Cross-sectioning—Computations—A complete survey and location of a line two to five miles long are made, with all the attendant computations requisite for placing the work under contract. Daily lectures, field and office work. Professor LOVELL

Graduation Thesis—A satisfactory project or thesis is required of every candidate for the degree of Civil Engineer at graduation.

#### Courses in Sanitary Engineering

18—Sanitary engineering of buildings—2 hours, first half, second year. Mr. BISBEE

19—General principles of hygiene and sanitary science—2 hours, second half, second year. Mr. BISBEE

20—Heating and ventilation—2 hours, fourth year. Mr. FALK

21—Drainage of country districts and towns—2 hours, second half, fourth year. Mr. BISBEE

#### University Courses

The minor subjects in the Department of Civil Engineering for the university degrees of Master of Arts and Doctor of Philosophy are the following:

5—Elasticity and resistance of materials.

22—Foundations, including theory of earth pressure (Civil Engineering 11 with additional reading).

23—Hydraulics (Civil Engineering 12 with additional reading).

24—Long-span bridges. Conferences, with reading and design work, as required.

Open to those who have taken Civil Engineering 10.

25—Elastic and masonry arches. Conferences, with reading and design work, as required.

Open to those who have taken Civil Engineering 4.

The major subjects for the same university degrees are the following:

26—Sanitary engineering.

27—Hydraulic engineering, including the hydraulics of rivers and power plants and municipal water-works.

28—Municipal engineering, including water-works, sewers and sewage works, streets and other public works and their administration.

29—The engineering of structures, including long-span bridges and deep foundations, with methods of building them, and advanced work in elasticity and resistance of materials.

### Equipment

The department possesses an unusually full equipment of engineers' and solar transits, levels, plane tables, compasses, and all accessories, as well as smaller instruments. Current meters, hook gauges, and floats of various types are also used in making observations on the flow in and discharge of rivers and canals. A complete set of sections of iron and steel shapes, models and photographs of engineering works, together with working plans of the latter, are in the department for the use of students. The hydraulic laboratory affords opportunity for the practical operations of measuring the discharge through weirs and other orifices, the flow through open channels and closed pipes, frictional and other resistances in pipes and open channels, as well as for meter gaugings, and for general hydraulic investigations. The testing work in the mechanical laboratory includes the complete tests of various structural materials in tension, compression, bending, and torsion, including the observation and digesting of all corresponding data.

A cement-testing laboratory is fully equipped with testing machines, briquette moulds, tanks, and other apparatus requisite for all classes of investigations in the nature and physical properties of cements and cement mortars. All students are required to make and test briquettes of cement and cement mortar as well as to ascertain the weight, fineness, and other physical properties of such cement, sand, and mortar as may be assigned to them for examination.

Students taking the course of Civil Engineering enjoy the use of the laboratories in all of the departments of the University in which they

pursue courses of study, and their laboratory work in those departments is identical with that of students taking courses of engineering study in the same departments.

The workshops used by the students in Civil Engineering are located in the Macy Manual Arts Building of Teachers College. The other laboratories used by students in the Department of Civil Engineering, and in which extended courses of work are given, are those of the Departments of Physics, Mechanical Engineering, and Electrical Engineering. Complete descriptions of these laboratories will be found in the circulars of their respective departments.

In addition to the actual equipment of the school, a great variety of large engineering works is continually in process of construction in New York City and vicinity, and the requisite steps are always taken to render them accessible to the students of the department for examination and study.

The library facilities consist of an extensive collection of foreign and domestic engineering books and periodicals, to which additions are being constantly made. The collection of engineering literature forms a part of the general Library of the University, and is constantly available for both undergraduate and post-graduate study.

### Clinical Instruction

*in Dermatology, Genito-Urinary Diseases, Laryngology, Ophthalmology, Orthopedic Surgery, and Otology. For Clinical instruction in Medicine, Surgery, Gynecology, Neurology, and Diseases of Children details will be found under the general heading of these departments.*

GEORGE MOREWOOD LEFFERTS, M.D., M.Sc..*Professor of Laryngology*

GEORGE HENRY FOX, A.M., M.D.....*Professor of Dermatology*

ALBERT H. BUCK, M.D.....*Professor of Otology*

VIRGIL P. GIBNEY, M.D., LL.D.....*Professor of Orthopedic Surgery*

ROBERT W. TAYLOR, M.D.....*Professor of Genito-Urinary Diseases*

ROYAL WHITMAN, M.D....*Chief of Clinic and Instructor in Orthopedic*

*Surgery*

JAMES R. HAYDEN, M.D.....*Chief of Clinic and Instructor in Genito-*

*Urinary Diseases*

ROBERT LEWIS, Jr., M.D.....*Chief of Clinic and Instructor in Otology*

GEORGE THOMAS JACKSON, M.D.....*Chief of Clinic and Instructor in*

*Dermatology*

WILLIAM K. SIMPSON, M.D.....*Chief of Clinic and Instructor in*

*Laryngology*

RICHARD FROTHINGHAM, M.D.....*Instructor in Laryngology*

WARD A. HOLDEN, M.D.....*Chief of Clinic and Instructor in*

*Ophthalmology*

HENRY H. TYSON, M.D.....*Instructor in Ophthalmology*

ARNOLD KNAPP, M.D.....*Lecturer in Ophthalmology*



## Clinical Assistants

*In Orthopedic Surgery*

<sup>1</sup> CHARLTON WALLACE, M.D.	DANIEL B. BRINSMADE, M.D.
CHARLES H. JAEGER, M.D.	NEWTON B. WALLER, M.D.
SHIRLEY E. SPRAGUE, M.D.	EDWARD J. PARISH, M.D.
CARL R. KEPPLER, M.D.	

*In Otology*

MATHEW L. CARR, M.D.	ALFRED MICHAELIS, M.D.
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*In Dermatology*

JOHN H. P. HODGSON, M.D.	CHARLES T. DADE, M.D.
JOHN ALDRICH, M.D.	S. DANA HUBBARD, M.D.

*In Ophthalmology*

EDWARD B. COBURN, M.D.	H. W. WOOTTON, M.D.
JOHN A. JACKSON, M.D.	

*In Laryngology*

ARTHUR P. COLL, M.D.	JOHN LESHURE, M.D.
LEE M. HURD, M.D.	SAMUEL W. THURBER, M.D.
JOSEPH E. FULD, M.D.	PAUL F. SONDERN, M.D.
JONATHAN DWIGHT, Jr., M.D.	F. CONGER SMITH, M.D.
JOHN J. MCCOY, M.D.	C. D. VAN WAGENEN, M.D.
F. A. SCHNEIDER, M.D.	

*In Genito-Urinary Diseases*

WILLIAM C. GILLEY, M.D.	WALTER D. TRENWITH, M.D.
EDMUND Y. HILL, M.D.	W. S. REYNOLDS, M.D.
S. W. FOWLER, M.D.	FELLOWES DAVIS, Jr., M.D.
WALTER B. BROUNER, M.D.	JAMES R. WHITING, M.D.

The following courses are required of candidates for the degree of M.D.:

In the third year, Genito-Urinary Diseases 1, 2, 3; Ophthalmology 1, 2; Otology 1, 2.

In the fourth year, Dermatology 1, 2; Laryngology 1, 2, 3; Orthopedic Surgery 1, 2.

The following is optional:

In the fourth year, Orthopedic Surgery 3.

Full information regarding these courses and the equipment of the University for this work will be found in the Announcement of the College of Physicians and Surgeons for 1903-04. All communications regarding them should be addressed to the Secretary of the Faculty of Medicine, 437 W. 59th Street.

<sup>1</sup> Absent on leave.

## Courses

### In Dermatology

1—Clinical lectures at the Vanderbilt Clinic upon the diseases of the skin. 1 hour. Monday, 3 P.M. First half of the year. Professor Fox

2—Practical instruction at the Vanderbilt Clinic in the diagnosis and treatment of the diseases of the skin. 10 lessons for each student. Dr. JACKSON

### In Genito-Urinary Diseases

1—Genito-Urinary diseases—Clinical lectures at the Vanderbilt Clinic. 2 P.M., Thursday. 1 hour, for second half of the year. Professor TAYLOR

2—Practical instruction at the Vanderbilt Clinic in the diagnosis and treatment of genito-urinary diseases—10 lessons for each student. Dr. HAYDEN

3—Hospital clinics in genito-urinary diseases—Bellevue Hospital, Tu. at 3.30 P.M. throughout the academic year. Dr. HAYDEN

### In Laryngology

Instruction in the Department of Laryngology (including diseases of the larynx, pharynx, and nasal passages) is both didactic and clinical. It comprises:

1—A systematic course of didactic lectures, which for convenience in teaching and economy of time is given to the fourth-year students collectively in the amphitheatre of the Vanderbilt Clinic.

Both the subjects and the dates of these lectures, each of which is, as far as possible, complete in itself, are announced in printed form at the beginning of the session, and a copy furnished each student in attendance. 1 hour a week for twenty-eight weeks. M. at 2 P.M. Professor LEFFERTS

2—Practical clinical instruction in the Laryngological Hall of the Vanderbilt Clinic to sections of the class in the use of the laryngoscope, rhinoscope, and tongue spatula, and in the laryngoscopic and posterior rhinoscopic examination of both normal and pathological cases, all under the direct and personal supervision of the Instructor. Dr. SIMPSON

3—Individual clinical demonstrations, at which, during his course of "section" teaching, each student has demonstrated to him, by the instructor, a certain number of pathological cases, special attention being given to the questions of general diagnosis, differential and bacteriological diagnosis, and treatment. Dr. FROTHINGHAM

### In Ophthalmology

1—Clinical lectures, at the Vanderbilt Clinic, upon the diseases of the eye. In selected cases the diagnosis is made, treatment applied, and minor operations are performed before the class.

Before and after the lectures, as opportunity offers, microscopic demonstrations of the pathological histology of the eye are made by Dr. HOLDEN. 1 hour, Tu. at 2 P.M. Dr. KNAPP

2—Practical instruction, at the Vanderbilt Clinic. 10 lessons for each student. Drs. HOLDEN and TYSON

### In Orthopedic Surgery

1—Clinic in orthopedic surgery and diseases of the joints at the Vanderbilt Clinic. 1 hour a week. F. at 12. Professor GIBNEY

2—Practical instruction. 10 lessons: 6 at the Vanderbilt Clinic and 4 at the Hospital for Ruptured and Crippled. Dr. WHITMAN

3—Operations at the Hospital for Ruptured and Crippled. Tu. at 8.30 A.M. Professor GIBNEY

### In Otology

1—Practical instruction in the diagnosis of the diseases of the ear at the Vanderbilt Clinic. 8 lessons for each student. Sections of ten men each, Mondays and Fridays at 2 P.M. Dr. LEWIS

Didactic instruction in pathology and therapeutic methods at the Vanderbilt Clinic. 4 lectures for each student. Wednesdays at 2 P.M. Professor BUCK

## Comparative Literature

<sup>1</sup>GEORGE EDWARD WOODBERRY, A.B.....*Professor*  
JOEL ELIAS SPINGARN, Ph.D.....*Tutor*  
FRANK WADLEIGH CHANDLER, Ph.D.....*Lecturer*

Courses 7, 8, and 10 are open to graduate students, and to specially qualified seniors in the College, and may be counted toward the higher degrees.

Courses 6, 11, 12, and Seminars A, B, and C, are open only to graduate students, both men and women, and may all be counted toward the higher degrees. Courses 7, 8, and 10 are pre-requisite for admission to any of the Seminars of this department. Candidates for the degree of Ph.D. in this department are required to take Courses 7, 8, and 10 in their first year, and Seminars A, B, and C in their second year of residence.

Courses 7, 8, and 10 may be offered as a full minor, and Seminars A, B, and C as a partial minor or major for Ph.D.

### Courses

[6—Studies in epic poetry. 3 hours. Professor WOODBERRY.  
*Not given in 1903-04.*]

<sup>1</sup> Absent on leave, 1903-04.

7—History of lyric poetry in the Middle Ages and the Renaissance. 3 hours. Dr. SPINGARN

8—The revival of Romanticism in the eighteenth century. 3 hours. Dr. CHANDLER

10—The Italian Renaissance and the diffusion of its influence throughout Europe. 3 hours. Dr. SPINGARN

[11—Principles of criticism. 3 hours. Professor WOODBERRY. *Not given in 1903-04*]

12—The tradition of chivalry in modern literature. 2 hours. Dr. SPINGARN

[Seminar A—Subject: The Hellenic and Oriental spirit in modern literature. Professor WOODBERRY.

*Not given in 1903-04*]

Seminar B—Subject for 1903-04: The decline of taste in the sixteenth and seventeenth centuries. 2 hours. Dr. SPINGARN

Seminar C—Subjects for 1903-04: I. Studies in Spanish literature, its characteristics and national traits, together with an examination of the diffusion of its influence through Europe. II. Calderon: the elements of his genius and the history of his theatre. 2 hours. Dr. CHANDLER

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For Extension courses in Comparative Literature see the special announcement of such work issued by Teachers College.

### Equipment

The officers of the department have given much attention to the requirements of their courses in the matter of learned publications, the books of specialists in literary topics, the particular collections grouped about great authors, and the rarer literature of the world of letters. The general subject of literary history and criticism and the latest phases of literary scholarship are well represented in the Library, and those subjects with which the courses directly deal are represented with unusual fulness. A special effort has been made to gather beforehand the literature of subjects for research, so that there may be no delay in providing such material. In the last few years several thousand volumes have been purchased by the head of the department with a particular view to the needs of students, and it is believed that within the limits of study, the collections are ample; and whatever books prove to be required will be at once obtained. Substantially all periodicals of the literary or learned world are currently received, and in files of such publications, transactions of societies, and the like the Library is uncommonly rich, as well as in foreign dissertations. These are the treasures of information for minute research. In the Library a special study room is provided for the department, in immediate communication with the books relating to its specific subject. In this room the Seminars of the department are held.



### Diseases of Children

L. EMMETT HOLT, M.D., LL.D.....	<i>Professor</i>
LINNAEUS EDFORD LA FETRA, M.D.....	<i>Chief of Clinic and Instructor</i>
LOUIS M. SILVER, M.D.....	<i>Clinical Assistant</i>
ALBERT F. BRUGMAN, M.D.....	<i>Clinical Assistant</i>
BERNARD SOUR, M.D.....	<i>Clinical Assistant</i>
ROBERT H. MCCONNELL, M.D.....	<i>Clinical Assistant</i>
JOHN HOWLAND, M.D.....	<i>Clinical Assistant</i>

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ABRAHAM JACOBI, M.D., LL.D.....*Emeritus Professor*

### Courses

Courses 1 and 3 are required in the third year, and Courses, 2 and 4 in the fourth year, of candidates for the degree of M.D.; Course 5 is optional in the fourth year.

1—Didactic lectures at the College upon Diseases of Children. 1 hour. Wednesday at 4 P.M., from February to May. Professor HOLT

2—Clinical lectures at the Vanderbilt Clinic upon the diseases of children. 1 hour. Wednesday at 2 P.M., from October to February. Professor HOLT

3—Practical instruction at the Vanderbilt Clinic in the diagnosis and treatment of the diseases of children. 10 lessons for each student. Dr. L. E. LA FETRA

4—Hospital clinic—Foundling or Babies' Hospital, Tuesdays at 2 P.M., Fridays at 3.15 P.M., from October to May. Professor HOLT

5—Hospital clinic—Roosevelt Hospital, Mondays and Thursdays at 5 P.M. from October to May. Professor JACOBI

### Domestic Art

Six courses are offered in Domestic Art under the auspices of Teachers College. For details see the *Announcement of Teachers College*, which will be sent, without charge, upon application to the Secretary of the University.

### Domestic Science

Seven courses are offered in Domestic Science under the auspices of Teachers College. For details see the *Announcement of Teachers College*, which will be sent, without charge, upon application to the Secretary of the University.

### Economics and Social Science

EDWIN R. A. SELIGMAN, LL.B., Ph.D.....	<i>Professor</i>
FRANKLIN HENRY GIDDINGS, Ph.D., LL.D.....	<i>Professor</i>
JOHN BATES CLARK, Ph.D., LL.D.....	<i>Professor</i>
HENRY ROGERS SEAGER, Ph.D.....	<i>Adjunct Professor</i>
HENRY LUDWELL MOORE, Ph.D.....	<i>Adjunct Professor</i>
ALVIN SAUNDERS JOHNSON, Ph.D.....	<i>Tutor</i>
GEORGE J. BAYLES, Ph.D.....	<i>Lecturer in Ecclesiology</i>
ELSIE CLEWS PARSONS, Ph.D.....	<i>Lecturer (Barnard College)</i>

*For more detailed statement of the scope of each course see the Announcement of the Faculty of Political Science (Division of History, Economics, and Public Law).*

The courses offered fall into two divisions: Political Economy and Finance, and Sociology and Statistics. Economics A and 1 are the general introductory courses primarily intended for juniors in Columbia and Barnard Colleges. Economics 3 to 8 and 11 to 13 will be found of especial value to law students seeking to supplement their purely legal studies. Sociology 15 and 16 are introductory courses leading up to Sociology 20 and 21. Sociology 20 and 21 are the general systematic courses laying the basis for the other courses in applied sociology. Sociology 15 to 24, together with Economics 6, 8, 11, and 12, will be of value to students of theology who wish to extend their knowledge of the social problems of the day.

In addition to the regular courses, there are several seminars, organized to furnish students opportunity for special investigation and original research. Every candidate for the degree of Master of Arts or Doctor of Philosophy, taking his major subject in this department, must work in at least one of the seminars.

The allied courses in history and public law will be found extremely useful for the students of social science, because of the close interrelations of history, law, and economics. Taken together, these courses constitute a complete scheme of political science.

Economics A is required of juniors in Columbia and Barnard Colleges, and open to sophomores who have taken Economics 1. Economics 1 is open to juniors and qualified sophomores. Economics 2, 3, 4, 6, 11, 12, and 13, and Sociology 15 and 16, are open to seniors and other candidates for the degree of Bachelor of Arts. The remaining courses are intended for university students. Courses corresponding to Economics A, 1, 2, 3, 6, 11, and 12, and Sociology 15 are given separately at Barnard College, and by the same instructors unless otherwise noted. Sociology 16 is given only at Barnard.

Economics 5, 7, 8, 9, 10, 13, 14, and Sociology 17, 18, 19, 20, 21, 22, 24, and 30 are open to graduate women students upon the same terms as to men.

Economics 2, 3, 4, 6, 11, 12, and Sociology 15 may be counted

toward the degree of Master of Arts or Doctor of Philosophy only when such additional work is taken in connection with them as may be prescribed by the instructor in charge.

All the courses are open to male auditors. Women holding the first degree may register as auditors in Economics 5, 7, 8, 9, 10, 14, and Sociology 17, 18, 19, 20, 21, 22, 24, and 30.

### Courses in Political Economy and Finance

**A**—Outlines of economics—Recitations, lectures, and essays. 3 hours, second half-year. Professors SELIGMAN and SEAGER and Dr. JOHNSON

Given at Barnard the first half-year by Professor MOORE and Dr. JOHNSON.

**1**—Economic history of England and America—Selected text-books, recitations, essays, and lectures. 3 hours, first half-year. Professor SELIGMAN and Dr. JOHNSON

Given at Barnard the second half-year by Professor MOORE and Dr. JOHNSON.

**2**—Economic readings—Reading, discussions, lectures, and essays. 2 hours. Professors SEAGER and MOORE

Given at Barnard by Professor MOORE under the name of:

**2b.**—The recent development of economics in England.

**2c.**—The social teachings of Carlyle, Ruskin, Mill, Kingsley, and Green.

**3**—Money and trade—Lectures, discussions, and reading. 2 hours, first half-year. Professor MOORE

**4**—Science of finance—Lectures and private reading. 2 hours. Professor SELIGMAN

Courses 3 and 4 are combined at Barnard under the name of Practical Economics, and are given as a 2-hour course during the first half-year by Professor SEAGER.

**5**—Fiscal and industrial history of the United States—Lectures and private reading. 2 hours, first half-year. Professor SELIGMAN.

**6**—The labor problem—Lectures and private reading. 2 hours, second half-year. Professor SEAGER

**7**—Railroad problems, economic, social, and legal—Lectures and private reading. 2 hours, second half-year. Professor SELIGMAN

**[8]**—History of economics—Lectures, discussions, and readings. 2 hours. Professor SELIGMAN.

*Not given in 1903-04]*

**9**—Economic theory I—The static laws of distribution—Lectures and private reading. 2 hours, first half-year. Professor CLARK

**10**—Economic theory II—The dynamic laws of distribution—Lectures and private reading. 2 hours, second half-year. Professor CLARK

**11**—Communistic and socialistic theories—Lectures and private reading. 2 hours, first half-year. Professor CLARK

**12**—Theories of social reform—Lectures and private reading. 2 hours, second half-year. Professor CLARK

13—Economic geography—Lectures and private reading. 2 hours, second half-year. Dr. JOHNSON

14—Seminar in political economy and finance. 2 hours. Professors SELIGMAN and CLARK

### Courses in Sociology and Statistics

15—Principles of sociology—Recitations, lectures, and collateral reading. 2 hours. Professor GIDDINGS

16—Family organization—Lectures and house-to-house observation. Bi-weekly, 1 hour. Dr. ELSIE CLEWS PARSONS

At Barnard College only

17—Theory of statistics—Lectures and laboratory. 2 hours, first half-year. Professor GIDDINGS

18—Social statistics—Lectures and laboratory. 2 hours, second half-year. Professor GIDDINGS

19—Economic statistics—Lectures and laboratory. 2 hours, second half-year. Professor SEAGER

20—Social evolution, ethnic and civil origins—Lectures and private reading. 2 hours, first half-year. Professor GIDDINGS

21—Social evolution—Civilization, progress, and democracy—Lectures and private reading. 2 hours, second half-year. Professor GIDDINGS

22a—Pauperism, poor laws, and charities—Lectures and private reading. 2 hours, first half-year. Professor SEAGER

22b—Crime and penology—Lectures as in 22a and private reading with Professor GIDDINGS

24—Civil aspects of ecclesiastical organization—Lectures and private reading. 1 hour. Dr. BAYLES

30—Seminar in sociology—2 hours, bi-weekly. Professor GIDDINGS

### Equipment

The Library facilities are unexcelled. Every journal of importance, American or foreign, dealing with economics or social science, is taken regularly by the Library. Any book needed by advanced students can usually be bought at once. The special library of history and political science alone comprises more than seventy thousand volumes.

Students of economics and social science will find New York to be a centre of library facilities unrivalled elsewhere in this country. In addition to the University Library, there are rich treasures at the New York Public Library on the Astor, Lenox, and Tilden foundation, New York Historical Library, Long Island Historical Library, Library of the Charity Organization Society, the Bar Association Library, and the Law Institute Library, to each of which students have access under favorable conditions. Advanced students also have at their



disposal the library of the Professor of Political Economy and Finance, which contains the most complete collection of works on economics to be found in the United States.

The facilities offered to students of sociology include a large library of general and special works, and unusual opportunities for field work. A generous gift for works on sociology has provided a very complete equipment of publications on sociological theory, the history of the family, pauperism, crime, and penology. Arrangements have been made with the Charity Organization Society, the State Charities Aid Association, the University Settlement, the East-Side House, and the Brooklyn Bureau of Charities by which students can become fully acquainted with actual work among the people and with the most perfect methods.

The Statistical Laboratory, conducted by Professors GIDDINGS and SEAGER, is equipped with the Hollerith tabulating machines, comptometers, and all other modern facilities.

## Education

Teachers College is the Department of Education of Columbia University. In the section of the catalogue devoted to Teachers College (see Table of Contents) will be found a list of its officers and a statement of its equipment for instruction and research in education.

The following courses are open to students of Columbia College and Barnard College, and to University students. All courses are open to men and women on equal terms.

1. Courses in the several departments open to all undergraduate students are designated by the numbers **1-9** inclusive.

2. Courses open to juniors and seniors only are designated by the numbers **10-49** inclusive. All courses in this group must be preceded or paralleled by Psychology **A** and Education **10**.

3. Courses open to seniors and graduates only are designated by the numbers **50-99** inclusive. All courses in this group must be preceded or paralleled by Psychology **A**, Education **10**, and Education **50**, none of which may be counted toward the higher degrees. Courses **52-99** inclusive may be counted toward the higher degrees as minor subjects, or, if combined with a practicum in the same field, as one half of a major subject.

4. Courses open to graduate students only are designated by the number **100** and above.

*A full statement of the nature of each course, the work pre-requisite to it, and the credit which may be received for it in partial fulfilment of the requirements for the several degrees and diplomas, will be found in the current edition of the Announcement of Teachers College, which may be had, without charge, upon application to the Secretary of Teachers College.*

### History and Philosophy of Education

50—History and principles of education—Lectures, required readings, reports, and discussions. 3 hours. Professor MONROE and Dr. MACVANNEL

51—Educational problems—Lectures and discussions. 1 hour. Dean RUSSELL, with the coöperation of President BUTLER, and of special lecturers.

52—Modern educational theory—Lectures, reading, and discussion. 2 hours. Dr. MACVANNEL

100—Practicum—Sources in the history of education. 2 hours. Professor MONROE

101—Seminar—History of education. 1 hour. Professor MONROE

102—Practicum—Philosophy of education. Lectures, reports, and discussions. 2 hours. President BUTLER and Dr. MACVANNEL

103—Seminar—Philosophy of education. President BUTLER and Dr. MACVANNEL

### Educational Administration

54—School administration—Lectures, essays, and discussions. 2 hours. Professor DUTTON

104—Practicum—Administration of public education in the United States. 2 hours. Professor DUTTON

105—Seminar—Educational administration. Dean RUSSELL and Professor DUTTON

[106—Practicum—Foreign school systems. 2 hours. Dean RUSSELL  
*Not given in 1903-04*]

### Educational Psychology

A—Elements of psychology. First half-year. }

10—Educational psychology. Second half-year. }

Lectures, practical exercises, and recitations. 3 hours. Professor THORNDIKE and Miss NORSWORTHY

12—Child study—Observation, experiments, private reading, and conferences. 2 hours. Professor THORNDIKE and Miss NORSWORTHY

59—Genetic psychology—Advanced course. 2 hours. Professor THORNDIKE and Miss NORSWORTHY

108—Practicum—The application of psychological and statistical methods to education. 2 hours. Professor THORNDIKE

109—Seminar—Genetic and comparative psychology. Professor THORNDIKE

### Elementary Education

15—General method and practice teaching—Observation, conferences, and practical work. 3 hours. Professor McMURRY and assistants

16—Primary and kindergarten teaching—Lectures, observation, and practical work. 2 hours. Miss O'GRADY

55—Supervision, critic work, and experimental teaching. 3 hours. Professor McMURRY

114—Practicum—The curriculum of the elementary school. 2 hours. Professor McMURRY

115—Seminar—Problems in the theory and practice of elementary teaching. Professor McMURRY

14—Religious education—Lectures, discussions, reports, observation, and practice. 1 hour. Dr. HODGE

20—Theory and practice of teaching nature study in graded and ungraded schools—Lectures, discussions, and practical work. 3 hours. Professors WOODHULL, LLOYD, and BIGELOW

62—Theory and practice of teaching domestic art—Lectures, conferences, and practical work. 3 hours. Professor WOOLMAN

63—Domestic art—Supervision and critic teaching in domestic art. Conferences and practical work. 2 hours. Professor WOOLMAN

64—Theory and practice of teaching domestic science—Lectures, conferences, and practical work. 2 hours. Professor KINNE

26—Theory and practice of teaching English in elementary schools—Lectures, recitations, and private reading. 2 hours. Professor BAKER

68—Theory and practice of teaching art—Lectures, conferences, observation, and practical work. 3 hours. Professor CHURCHILL and Mr. PARSONS

32—Theory and practice of teaching geography in elementary schools—Lectures, discussions, and practical work. 2 hours. Professor DODGE and Miss KIRCHWEY

38—Theory and practice of teaching history in elementary schools—Lectures, conferences, reference work, and practical work. 2 hours. Professor CASTLE

16—Primary and kindergarten methods—Observation, discussions, written reports, and lectures. 2 hours. Miss O'GRADY

80—Theory and practice of kindergarten teaching—Lectures, discussions, and practical work. 6 hours. Professor RUNYAN

81—Kindergarten supervision and critic teaching. 2 hours. Professor RUNYAN and Miss O'GRADY

84—Theory and practice of teaching manual training—Discussions, collateral reading, observation, and practical work. 3 hours. Professor RICHARDS

85—Organization of manual training—Discussions, essays, and investigation. 2 hours. Professor RICHARDS

46—Theory and practice of teaching mathematics in elementary schools—Lectures, discussions, and practical work. 2 hours. Professor SMITH

88—Theory and practice of teaching music—Lectures and practical work. 3 hours. Professor FARNSWORTH

49—School hygiene—Lectures, demonstrations, collateral reading, reports, and practical work. 2 hours. Professor WOOD

[70—Theory and practice of teaching French—Lectures, essays, discussions, reports of observation, and practice teaching. 3 hours.

*Not given in 1903-04]*

### Secondary Education

57—Secondary education—Lectures, discussions, and reports. 2 hours. Professor SACHS

116—Practicum—The secondary-school curriculum. 2 hours. Professor SACHS

117—Seminar in secondary education. Professor SACHS

60—Theory and practice of teaching biology in the secondary school.—Lectures, discussions, and practical work. 3 hours. Professors LLOYD and BIGELOW

120—Practicum in botany and zoölogy. A critical study of the materials and methods employed in the teaching of botany and zoölogy. 2 hours. Professors LLOYD and BIGELOW

62—Theory and practice of teaching domestic art—Lectures, conferences, and practical work. 3 hours. Professor WOOLMAN

63—Supervision and critic teaching in domestic art—Conferences and practical work. 2 hours. Professor WOOLMAN

64—Theory and practice of teaching domestic science—Lectures, conferences, and practical work. 2 hours. Professor KINNE and Miss WHITEMORE

124—Supervision and critic teaching in domestic science—Conferences and practical work. 2 hours. Professor KINNE

66—Theory and practice of teaching English in secondary schools—Lectures, reading, written work, observation, and practice-teaching. 3 hours. Professor BAKER

126—Practicum in English. 2 hours. Professor BAKER

68—Theory and practice of teaching art—Lectures, conferences, observation, and practical work. 3 hours. Professor CHURCHILL and Mr. PARSONS

72—Theory and practice of teaching geography in secondary schools—Lectures, discussions, and practical work. 3 hours. Professor DODGE and Miss KIRCHWEY

132—Practicum in geography. 2 hours. Professor DODGE

74—Theory and practice of teaching German in secondary schools—Lectures, essays, discussions, reports of observation, and practice teaching. 3 hours. Professor BAGSTER-COLLINS



76—Theory and practice of teaching Greek in secondary schools—Lectures, reports, and practical work. 3 hours. Professor LODGE

136—Practicum in Greek. 2 hours. Professor LODGE

78—Theory and practice of teaching history in secondary schools—Lectures, discussions, and practical work. 3 hours. Professor CASTLE

138—Practicum in history. 2 hours. Professor CASTLE

82—Theory and practice of teaching Latin in secondary schools—Lectures, reports, and practical work. 3 hours. Professor LODGE

142—Practicum in Latin. 2 hours. Professor LODGE

84—Theory and practice of teaching manual training—Discussions, collateral reading, observation, and practical work. 3 hours. Professor RICHARDS

85—Organization of manual training—Discussions, essays, and investigation. 2 hours. Professor RICHARDS

145—Seminar in manual training. Professor RICHARDS

86—Theory and practice of teaching mathematics in secondary schools—Lectures, discussions, and practical work. 3 hours. Professor SMITH

146—Practicum in the history and teaching of mathematics. 2 hours. Professor SMITH

88—Theory and practice of teaching music—Lectures and practical work. 3 hours. Professor FARNSWORTH

90—Theory and practice of physical education—Lectures, readings, reports, and practical work. 3 hours. Professor WOOD

150—Practicum in physical education. 2 hours. Professor WOOD

92—Theory and practice of teaching physical science in secondary schools—Laboratory exercises, observation, and practical work. 3 hours. Professor WOODHULL and Miss VAN ARSDALE

152—Practicum in physical science. 2 hours. Professor WOODHULL

For Extension courses in Education see the special announcement of such work issued by Teachers College.

### Electrical Engineering

FRANCIS B. CROCKER, E.M., Ph.D.....	Professor
GEORGE FRANCIS SEVER.....	Adjunct Professor
FITZHUGH TOWNSEND, A.B., E.E.....	Tutor
MORTON ARENDT, E.E.....	Lecturer
T. O'CONOR SLOANE, Jr., E.E.....	Assistant

For full information as to the scope of the work in *Electrical Engineering*, students are referred to the *Announcement of the Course in Electrical Engineering*, which may be obtained from the Secretary of the University.

*This pamphlet contains a detailed statement of the requirements for the degree of Electrical Engineer, for students either with or without previous collegiate or technical training.*

The theoretical side of Electrical Engineering is treated in lectures delivered by Professor PUPIN of the Department of Mechanics, under which head the various courses will be found. Mr. TOWNSEND assists the Department of Mechanics by teaching Course 6 and part of Course 7 of that department. (See Mechanics 6-9, 14-17.)

Course 7 is required of second-year students in Electrical, Mechanical, Mining, and Civil Engineering, and is open to seniors of the College.

Courses 1 and 4 are required of third-year students in Electrical and Mechanical Engineering.

Course 10 is required of third-year, and 2, 3, 6, 8, 11, 12, 22, 25, 26, of fourth-year students in Electrical Engineering.

Course 3 is required of fourth-year students in Chemistry and Metallurgy, and 2, 8, 23, and 28 of fourth-year students in Mechanical Engineering.

Courses 5 and 105 are required of third-year students in Civil, Sanitary, and Mining Engineering, Chemistry (B), and Metallurgy, and 27 of third-year students in Mechanical Engineering.

Course 24 counts as major for Ph.D.

### Courses

1—Dynamo and motor practice—Principles, construction, operation, and testing of dynamos and electric motors. Text-books: Crocker's *Electric Lighting*, vol. i.; Sever's *Laboratory Notes*. 2 hours, first half-year. Professor SEVER

2—Electric power—Transmission and distribution of electric power, including the principles and applications of the direct-current, single-phase, and polyphase systems. 2 hours, first half-year. Professor CROCKER and Mr. ARENDT

3—Electrochemistry and electrometallurgy; including theory and applications of electrolysis and electrical heating; theory and practice of primary and secondary batteries; production, separation, and purification of chemicals and metals. 1 hour. Professor CROCKER and Mr. ARENDT

4—Electric lighting—The design, installation, and operation of electric-lighting systems and plants, including a discussion of each of the various elements and methods employed. Text-book: Crocker's *Electric Lighting*, vol. i. 2 hours, second half-year. Professor CROCKER and Mr. ARENDT

5—General electrical engineering—The principles of electrical engineering and their application to general engineering. 1 hour lecture, second half-year. Professor CROCKER

6—Telegraph and telephone. Text-books: Pope's *Modern Practice*

of the *Electric Telegraph*; Webb's *Practical Telephone Hand-book*. 2 hours, second half-year. Professor CROCKER and Mr. ARENDT

7—Elements of electrical engineering—General electrical principles, laws, measurements, and the introduction to their applications, including the elements of the dynamo. Text-book: Thompson's *Elementary Lessons in Electricity and Magnetism*. 2 hours, first half-year; 1 hour, second half-year. Professor CROCKER and Mr. TOWNSEND

8—Electric railway—The design, installation, and operation of the various systems of electric railways. 2 hours, second half-year. Professor SEVER

10—Direct-current laboratory—Practice in the use of instruments and in the operation and testing of direct-current dynamos and motors. Text-book: Sever's *Laboratory Notes*. 5 hours laboratory work. Professor SEVER

11—Alternating-current laboratory—Practice in the use of instruments and in the operation and testing of alternating-current generators, motors, and transformers. Text-book: Townsend's *Laboratory Notes*. 5 hours laboratory work. Mr. TOWNSEND

12—Electrical-instrument laboratory. Calibration of commercial measuring instruments and advanced electrical measurements, including self-induction, capacity, and magnetic measurements. Storage battery testing, photometry of electric lamps, operation of telegraph and telephone apparatus.  $7\frac{1}{2}$  hours laboratory work, first half-year. Mr. SLOANE

15—Design of direct-current machinery. Original design in detail with calculations and working drawings of a specially assigned dynamo or motor. 2 hours conference and 1 afternoon in drawing-room, second half-year. Professor SEVER

22—Management of electrical plants—Economy in the design, construction, and operation of electrical stations, plants, and factories. Organization, administration, accounts, specifications, contracts, laws, and insurance rules, accidents, patents, and statistics in relation to electrical work. 2 hours, second half-year. Professor CROCKER and Mr. ARENDT

23—Electrical distribution—Principles and methods of transmitting and distributing direct as well as alternating currents; series, parallel, and multiple wire systems; regulation of voltage and current; transformers; meters; arc and incandescent lamps. Text-book: Crocker's *Electric Lighting*, vol. ii. 2 hours, first half-year. Professor CROCKER and Mr. ARENDT

24—Special problems and original investigations in electrical engineering. Post-graduate work under the direction of the officers of the department.

25—Design of alternating-current machinery—Original design of alternating-current generators, motors, transformers, etc. 2 hours, second half-year. Mr. TOWNSEND

**26**—Graduation thesis for degree of Electrical Engineer—Original work and report on a subject approved by the head of the department.

**27**—Direct-current laboratory—Short course for students in Mechanical Engineering. Text-book: Sever's *Electrical Engineering Laboratory Experiments*. 1 afternoon a week, first half, third year. Professor SEVER

**28**—Alternating-current laboratory—Short course for students in Mechanical Engineering. Covers the important elementary phenomena of alternating currents. Townsend's *Laboratory Notes*. 1 afternoon, part of first half, fourth year. Mr. TOWNSEND

**105**—Direct-current laboratory—Short course for students in Civil, Sanitary, and Mining Engineering, Metallurgy, and Chemistry (Course B). Text-book: Sever's *Texts on Direct-Current Machinery*. 1 afternoon, second half-year. Professor SEVER

### Equipment

The offices, laboratories, lecture, and other rooms of the Electrical Engineering Department are in the south end of Engineering. In the sub-basement is located the photometer room. In the basement are situated the two machine laboratories, the larger containing the direct-current machinery, while the smaller accommodates the alternating-current apparatus.

The various machines include examples of constant potential generators, constant-current, arc-lighting dynamos, and other typical apparatus. Several types of stationary and railway motors, as well as motor-dynamos are also placed in this room. Machine and hand tools are provided in one corner of this laboratory for making and repairing apparatus, attachments, and the like. Complete sets of ampere and volt meters, speed indicators, and transmission and absorption dynamometers, are available for testing the various dynamos and motors. In the Mechanical Engineering laboratory is placed an electric car of full size, completely equipped with motors and controlling apparatus. This is available for purposes of testing.

In the other machinery laboratory, the alternating-current apparatus is placed, including single-phase and polyphase generators, induction and synchronous motors, rotary converters, and various types and sizes of transformers. Each alternator is driven by a separate electric motor, enabling its speed to be independently regulated. Complete sets of alternating-current measuring instruments and curve-tracing apparatus are also provided.

On the first floor are situated the lecture-rooms, which are provided with an ample supply of electrical energy of different forms, as well as gas, water, and other facilities to enable experimental demonstrations to be conveniently and effectively performed.

The museum contains cases for the collection of apparatus, models, and materials relating to Electrical Engineering. This museum adjoins



the lecture-rooms so that its contents can be conveniently used for illustrating the lectures.

On the third floor are located the large instrumental laboratory, the research room, and the studies of the officers. The laboratory contains various forms of galvanometers, ampere balances, potentiometers, standard cells, and resistances; apparatus for measuring inductance, magnetic permeability, hysteresis, and leakage; laboratory standard volt and ampere meters. A storage battery is provided in this laboratory for testing purposes and as a source of steady current for calibration and standardization of instruments. The research room is used for special post-graduate and thesis work, and is fitted up according to the lines of investigation that are being followed.

A most important facility is the large and reliable supply of electric power which is afforded by the central power plant of the University. This electrical generating plant, having a total capacity of 750 H.P., and illustrating the latest and best practice in electrical engineering, furnishes current for electric lighting and for driving the motors and fans used in ventilating all of the buildings. Special conductors are also laid to convey to all the laboratories and lecture-rooms of the Electrical Engineering Department an ample supply of current for experimental work.

### English

BRANDER MATTHEWS, LL.B., D.C.L., Litt.D.....	<i>Professor</i>
GEORGE RICE CARPENTER, A.B.....	<i>Professor</i>
WILLIAM PETERFIELD TRENT, M.A., LL.D.....	<i>Professor</i>
FRANKLIN THOMAS BAKER, A.M.....	<i>Professor in Teachers College</i>
WILLIAM TENNEY BREWSTER, A.M.....	<i>Adjunct Professor</i>
GEORGE C. D. ODELL, Ph.D.....	<i>Adjunct Professor</i>
HERBERT VAUGHN ABBOTT, A.B.....	<i>Instructor in Teachers College</i>
CLAYTON MEEKER HAMILTON, A.M.....	<i>Tutor</i>
GEORGE PHILIP KRAPP, Ph.D.....	<i>Tutor</i>
VIRGINIA CROCHERON GILDERSLEEVE, A.M....	<i>Tutor in Barnard College</i>
CHARLES MONTGOMERY HATHAWAY, Jr., Ph.D.....	<i>Tutor</i>
RALPH CURTIS RINGWALT, A.B., LL.B....	<i>Lecturer in Public Speaking</i>
FRANCIS XAVIER CARMODY, A.B., LL.B.....	<i>Lecturer in Elocution</i>
FRANCES CAMPBELL BERKELEY, A.B.....	<i>Assistant in Barnard College</i>
ARMOUR CALDWELL, A.B.....	<i>Assistant</i>
WILLIAM BRIAN HOOKER, A.B.....	<i>Assistant</i>

Course A is given at Columbia College, at Barnard College, and at Teachers College.

Courses B, 1, 2, 9, 15, 17, 21, 23, are given both at Columbia College and at Barnard College.

Courses 4, 6, 16, 20, 25, are given only at Columbia College.

Courses 19, 22 are given only at Barnard College.

Courses 16, 17, are open to seniors in Columbia College as well as to graduate students.

Courses 3, 9, 16, 17, 40, 42, 44, 48, 51, Seminar A, and Seminar B, are open to graduate students (but Courses 40, 42, and 44 are not open to women).

Courses 2b, 7, 10, 24, 41, 43, 47, 49, 50, are not given in 1903-04.

For pre-requisites for admission into courses, and a fuller description of the scope of each course, see the Circular of the Division of Modern Languages and Literatures.

### Courses

**A**—English literature and composition—Lectures, recitations, and themes. 3 hours. Professor ODELL and Mr. CALDWELL (Columbia College); Professor BREWSTER, Mr. HAMILTON, Miss GILDERSLEEVE, and Miss BERKELEY (Barnard College); Mr. ABBOTT (Teachers College)

**B**—English literature and composition—Fortnightly essays, lectures, and consultations. 2 hours. Professor G. R. CARPENTER, Professor BREWSTER, Mr. HAMILTON, and Mr. HOOKER (Columbia); Professor BREWSTER, Miss GILDERSLEEVE, and Miss BERKELEY (Barnard)

**1**—English composition—Daily themes and fortnightly essays, lectures, and consultations. 3 hours, first half-year. Professor G. R. CARPENTER (Columbia); Professor BREWSTER (Barnard)

**2**—English composition—Lectures and discussions with regard to style; essays and other written work. 3 hours, second half-year. Professor G. R. CARPENTER (Columbia); Professor BREWSTER (Barnard)

**[2b]**—English composition, with special reference to expository and critical writing—3 hours, second half-year. Professor BREWSTER]

**3**—English composition (advanced course)—Essays, lectures, and consultations. 2 hours, first half-year. Professor G. R. CARPENTER

**4**—Elocution—Lectures and exercises. 2 hours. Mr. CARMODY

**6**—Theory and practice of public speaking. 3 hours. Mr. RINGWALT

**[7]**—Theory of English usage. 1 hour. Professor G. R. CARPENTER]

**9**—Argumentation. 2 hours (Columbia); 3 hours (Barnard). Mr. RINGWALT (Columbia); Miss GILDERSLEEVE (Barnard)

**[10]**—English essayists of the nineteenth century. Professor G. R. CARPENTER]

**15**—Anglo-Saxon and historical English grammar. 2 hours. Dr. KRAPP (Columbia); Professor JACKSON (Barnard)

**16**—Anglo-Saxon literature—Poetry and prose. 2 hours. Dr. KRAPP

**17**—Chaucer—Language, versification, and method of dramatic poetry. 2 hours. Dr. KRAPP (Columbia); Professor TRENT (Barnard)

19—Shakspeare—Language, versification, and method of dramatic poetry. 2 hours. Professor JACKSON (Barnard)

20—The poetry, lyrical, narrative, and dramatic, of Tennyson, Browning, and Matthew Arnold. 2 hours. Professor ODELL

21—American literature. 3 hours (Columbia); 2 hours (Barnard). Professor BRANDER MATTHEWS, Mr. HAMILTON, Mr. CALDWELL, and Mr. HOOKER (Columbia); Professor G. R. CARPENTER (Barnard)

22—The history of the English novel. 2 hours. Professor BREWSTER (Barnard)

23—English poetry—General survey from the Elizabethan age to modern times. 3 hours (Columbia); 2 hours (Barnard). Professor ODELL (Columbia); Professor TRENT (Barnard)

[24—English prose—General survey from the Restoration to modern times. 2 hours. Professor BREWSTER]

25—The development of the English drama. 3 hours. Professor BRANDER MATTHEWS and Mr. HAMILTON

40—Epochs of the drama. 2 hours. Professor BRANDER MATTHEWS

[41—Dramatists of the nineteenth century. 2 hours. Professor BRANDER MATTHEWS]

Courses 40 and 41 are given in alternate years.

42—Molière and modern comedy. 2 hours. Professor BRANDER MATTHEWS

[43—English comedy: its history and its methods. 2 hours. Professor BRANDER MATTHEWS]

Courses 42 and 43 are given in alternate years.

44—The history of the drama—Special topics. Professor BRANDER MATTHEWS

[47—English literature from 1625-1701. 2 hours. Professor TRENT]

48—English literature from 1701-1798. 2 hours. Professor TRENT

[49—English literature in the first half of the nineteenth century. 2 hours. Professor TRENT]

Courses 47, 48, 49, are given in successive years.

[50—English poetic forms. 2 hours. Professor TRENT]

51—English prose. 1 hour. Professor BREWSTER

Seminar A—Topics in American literature, with special reference to the period 1789-1829. 2 hours. Professor TRENT

Seminar B—Elizabethan poetry other than dramatic. 2 hours. Professor TRENT

#### Undergraduate Courses in Teachers College

T. C. 2—Shakspeare—Recitations, lectures, fortnightly reports, and conferences. 2 hours. Mr. ABBOTT

T. C. 3—Composition—Lectures, fortnightly themes or tri-weekly paragraphs, and conferences. 2 hours. Mr. ABBOTT

T. C. 5—Nineteenth-century poetry—Recitations, conferences, and reports. 2 hours, second half-year. Professor BAKER

T. C. 10—The folk story. 2 hours. Lectures and reading. Mr. ABBOTT

For Extension courses in English, see the special announcement of such work issued by Teachers College.

### Fine Arts

Fourteen courses are offered in Fine Arts under the auspices of Teachers College. For details see the *Announcement of Teachers College*, which will be sent, without charge, upon application to the Secretary of the University.

(See also the Departmental Statements of Architecture and Music in this volume.)

### French

(See Romance Languages and Literatures)

### Geography

RICHARD E. DODGE, A.M.....*Professor*  
CLARA B. KIRCHWEY.....*Tutor*

#### Courses

There are three courses given under the auspices of Teachers College: 1, 2, and 10. See also Education 32, 72, and 132.

1—General geography. Lectures, laboratory work, and collateral reading. 2 hours. Professor DODGE and Miss KIRCHWEY

Laboratory fee, \$2.00.

2—General geography continued—Lectures, laboratory work, and collateral reading. 2 hours. Professor DODGE and Miss KIRCHWEY

Laboratory fee, \$2.00.

10—Physiography, first half-year. Geography of the United States, second half-year. Lectures, laboratory, and library. 3 hours. Professor DODGE and Miss KIRCHWEY

Laboratory fee, \$2.00.

For Extension courses in Geography see the special announcement of such work issued by Teachers College.

### Equipment

The department of Geography occupies a suite of five rooms on the second floor of the Teachers College. A lecture-room capable of



holding fifty, a well-lighted laboratory with table spaces for thirty, two offices, and a large work- and stock-room, compose the suite. The lecture-room is furnished with lantern, models, and wall maps; the laboratory contains several large models, and has a set of more important weather instruments in an outdoor shelter. The supply of topographic, climatic, and special maps, of diagrams, of physical models, and of lantern slides is large, and has been especially chosen for use in the several courses announced above.

### Geology

JAMES FURMAN KEMP, A.B., E.M.....	Professor
AMADEUS WILLIAM GRABAU, S.D.....	Adjunct Professor
CHARLES PETER BERKEY, Ph.D.....	Tutor
ALEXIS ANASTAY JULIEN, Ph.D.....	Curator
IDA HELEN OGILVIE, Ph.D.....	Lecturer in Barnard College

For full information regarding the following courses see the *Announcement of the Division of Geology, Geography, and Mineralogy*.

Courses 1, 2, 3, 7, 8, 13, and 16a are open to College students; Courses 2, 3, 4, 6, 10, 13, 16a, and 18 are open to students in Applied Science; Courses 2, 3, 6, 7, 8, 10, 15, 16b, and 17 are open to graduate students.

### Courses

1—General geology. 2 hours lectures and 2 hours laboratory, counting as a three-hour course. Professor GRABAU

2—General geology. 3 hours lectures. Professor KEMP, Professor GRABAU, and Dr. BERKEY

3—Economic geology. 3 hours lectures. Professor KEMP

4—Petrography. 2 lectures and 1 afternoon for two months, second term. Compare Mineralogy 6. Professor KEMP and Dr. BERKEY

6—Petrology. 2 lectures and at least 4 hours laboratory. Professor KEMP and Dr. BERKEY

7—Invertebrate palæontology. 2 lectures and at least 4 hours laboratory. Professor GRABAU

8—Comparative geology—A comparative description and study of the geological formations of North and South America. 2 lectures and 4 hours reading and laboratory. Professor KEMP for the crystalline and pre-Cambrian rocks, Professor GRABAU for the fossiliferous.

10—Geological examinations and surveys—A discussion of field methods and of the organization of geological surveys. 2 lectures, second term. Professor KEMP

12—A thesis which will furnish the major course for the concluding year of study for the degree of Doctor of Philosophy.

13—Field geology—Ten days field work, and report upon the same, during the vacation. Given in two sections, the Eastern section immediately at the close of the spring examinations, the Western section in connection with Mining 11.

15—Phylogeny of a special group of fossil invertebrates. 6 or more hours laboratory and conference by appointment. Pre-requisite, Course 7. Professor GRABAU

16a—Fossil faunas—A study of American fossil faunas. 1 lecture and 8 or more hours laboratory, second term. Pre-requisite, Course 1 or 2. Professor GRABAU

16b—A more extended course which may be taken as a minor or partial major. 6 hours or more laboratory, and additional conferences. Professor GRABAU

17—Stratigraphy—Faunas of a special horizon or locality. 6 hours or more laboratory and conference by appointment. Professor GRABAU

18—General geology. 3 hours lectures during the second term. Field work on Saturdays during the last six weeks. Special course for students in Civil Engineering. Dr. BERKEY

19—General geology—A course in general geology, 3 lectures weekly, and equivalent to Course 1 above, is offered students from Barnard and Teachers Colleges. Dr. OGILVIE

The department has ample laboratories and a full equipment for its several lines of work, details of which will be found in the Circular of the Faculty of Pure Science.

Related courses in Physiography are given in Teachers College by Professor R. E. DODGE in close association with this department.

The following courses in Palæobotany are offered at the New York Botanical Garden by Dr. ARTHUR HOLLICK

Geology 9a—General palæobotany—Developmental history and structure of the fossil flora of some selected locality. Laboratory and Museum.

Geology 9b—Cretaceous flora of eastern North America—Collection and determination of specimens of some station with attention to stratigraphic relations. Field and laboratory.

The palæobotanical library and collections of Columbia University have been deposited at the New York Botanical Garden.

### Germanic Languages and Literatures

WILLIAM HENRY CARPENTER, Ph.D. . . . *Villard Professor of Germanic  
Philology*

CALVIN THOMAS, A.M. . . . *Gebhard Professor of the Germanic Languages  
and Literatures*

ELIJAH WILLIAM BAGSTER-COLLINS, A.M. . . . . *Adjunct Professor in  
Teachers College*

WILLIAM ADDISON HERVEY, A.M.....	<i>Instructor</i>
RUDOLF TOMBO, Jr., Ph.D.....	<i>Instructor</i>
ARTHUR F. J. REMY, Ph.D.....	<i>Instructor</i>
RUDOLF TOMBO, Sr., Ph.D.....	<i>Tutor in Barnard College</i>
<sup>1</sup> WILHELM ALFRED BRAUN, Ph.D.....	<i>Tutor in Barnard College</i>
FREDERICK W. J. HEUSER, A.M.....	<i>Lecturer in Barnard College</i>
EMIL A. C. KEPPLER, A.M.....	<i>Assistant</i>
ANNINA PERIAM, A.M.....	<i>Assistant in Barnard College</i>
JOHN LOUIS KIND, A.M.....	<i>Assistant in Teachers College</i>
PHILIPP SEIBERTH, A.M.....	<i>Assistant</i>

The department, as its name implies, offers instruction, not only in German, but in the kindred languages and literatures of the other members of the Germanic group. The courses offered by the department are grouped under the following heads: German, Scandinavian, Low German, Gothic, and Germanic Philology. In German the aim of the instruction is primarily to enable students to use the modern language with facility in reading, writing, and, as far as possible, in speaking, and to acquaint them with the masterpieces of German literature. Opportunity is also given to acquire a reading knowledge of the languages of the other Germanic nations, and to study their literatures. Parallel courses are arranged in such a way that while both language and literature are combined in the earlier courses, either side may be subsequently emphasized at will. Courses are also given in the philology of the whole Germanic group. Work supplementary to the lectures is given in the Seminar.

Course A is prescribed for freshmen in the College who did not present Elementary German at entrance; Course 1 is equivalent to Course A plus a one-hour elective; Courses 2 and 22 are open to students who presented Elementary German at entrance, or have taken Course A; Course 3a is open to students who have presented the Intermediate requirement at entrance, or have taken Course 1, 2, 22, or an equivalent; Courses 3b and 4 are equivalent courses, open to students who have presented the Intermediate requirement at entrance, or have taken Course 2, or an equivalent; Course 5 is open to others than freshmen on the same terms as Courses 3b and 4; Courses 6 and 9 are open to students who have taken Course 3, 4, or an equivalent; Course 7 is open to students who have taken Course 6 or an equivalent; Course 8 is open to students who have taken Course 22 or an equivalent, or are taking Course 3, 4, 5, or an equivalent; Courses 10-21, 23 and 24 are open, with the permission of the instructor, to seniors; Courses A, 1-24 are open to university students. The Seminar is open to advanced students only.

Courses A, 1, 2, 22, 3, 4, 5, and 8 may not be counted towards the degree of Master of Arts or Doctor of Philosophy, and all other courses

<sup>1</sup> Absent on leave, 1903-04.

may be so counted only when such additional work is taken in connection with them as may be prescribed by the instructor in charge.

All the courses in this department, with the exception of **A, 1, 2, 22, 3, 4, 5, 6, 7, 8, and 9**, are open to women on the same terms as to men. Women wishing to enter any of the courses as special students or as candidates for the bachelor's degree must register through Barnard College or Teachers College.

Courses **6, 7, 9-21, 23** and **24** are open, with the consent of the instructor, to auditors.

Courses **A, 2, 3, 4, 6, and 8** are also given in Barnard College. A parallel course to Course **20** is given as Course **25** in Barnard College. Courses **10-21, 23** and **24**, are open, with the permission of the instructor, to seniors of Barnard College.

Courses **A, 2**, and Education **74** are given in Teachers College.

### Courses in German

**A**—Elementary course. Thomas, *Practical German Grammar*; Hervey, *Supplementary Exercises*; Thomas and Hervey, *German Reader*. 3 hours. Mr. HERVEY, Mr. KEPPLER, and Mr. SEIBERTH

**1**—Longer elementary course. 5 hours in second half-year. Mr. KEPPLER and Mr. SEIBERTH

**2**—Reading, grammar, and composition. 3 hours. Dr. REMY and Mr. KEPPLER

**22**—Grammar and composition. Syntax and word-formation; sight-reading and colloquial practice. 2 hours. Mr. HERVEY, Dr. REMY, and Mr. SEIBERTH

**3a**—Selected works of Goethe, Schiller, and Lessing. Texts, chiefly dramatic, and essays. Intended primarily for students who have not previously read works of these authors. 3 hours. Mr. HERVEY

**3b**—Selected works of Goethe, Schiller, and Lessing. Texts and essays. Intended primarily for students who have some acquaintance with the works of these authors. 3 hours. Mr. HERVEY

**4**—Historical prose. One volume of Freytag's *Bilder aus der deutschen Vergangenheit*, and other works of a historical character. 2 hours. Dr. R. TOMBO, Jr.

**5**—Lessing's *Laokoon* and *Hamburgische Dramaturgie*. Lectures and recitations. 2 hours. Dr. REMY

**[6a]**—History of German literature from the earliest times to the Reformation. Lectures, themes, and readings from Müller's *German Classics*. 2 hours. Professor THOMAS

*Not given in 1903-04]*

**6b**—History of German literature from the Reformation to the nineteenth century. Lectures, themes, and readings from Müller, *German Classics*. 2 hours. Professor THOMAS

Courses **6a** and **6b** are given in alternate years.



7—Goethe's *Faust*: First and second parts. Lectures and recitations. 2 hours. Professor THOMAS

8—Practice in speaking and writing German. Talks and themes, all in German, upon linguistic and literary topics. 2 hours. Dr. R. TOMBO, Jr., Dr. REMY, Mr. KEPPLER, and Mr. SEIBERTH

9—History of the German language. Lectures and texts. 2 hours. Professor W. H. CARPENTER

[23—Epochs of German culture. The age of chivalry. Lectures, themes, and readings. 2 hours. Mr. HERVEY

*Not given in 1903-04]*

10a—Great German writers. Lessing (first half-year) and Goethe (second half-year). 2 hours. Professor THOMAS

Courses 10a and 10b are given in alternate years.

[10b—Great German writers. Schiller (first half-year) and Heine (second half-year). 2 hours. Professor THOMAS

*Not given in 1903-04]*

[11—Old High German. Lectures and texts. 2 hours. Dr. R. TOMBO, Jr.

*Not given in 1903-04]*

21—Middle High German. Lectures and texts. 2 hours. Mr. HERVEY

Courses 11 and 21 are given in alternate years.

20—History of German literature in the nineteenth century. Lectures. 2 hours. Professor THOMAS

For Extension courses in German, see the special announcement of such work issued by Teachers College.

Education 74—Theory and practice of teaching German in secondary schools. Lectures, essays, discussions, reports of observation, and practice-teaching. 2 hours; practical work, 1 hour. Professor BAGSTER-COLLINS

Given in Teachers College.

### Courses in Scandinavian

12—Swedish. Elementary course in the language, with miscellaneous reading, and a general survey in lectures of the history of Swedish literature. 2 hours. Professor THOMAS

Swedish alternates with Danish and Dutch in a cycle of three years.

[13—Danish. Elementary course in the language, with miscellaneous reading, and a general survey in lectures of the history of Danish literature. 2 hours. Professor THOMAS

*Not given in 1903-04; to be given in 1904-05]*

14—Icelandic. Elementary course. Kahle, *Altisländisches Elementarbuch*. 2 hours. Professor W. H. CARPENTER

Courses 14 and 15 are given in alternate years.

[15—Icelandic. Advanced course. The *Snorra Edda*. Lectures and texts. 2 hours. Professor W. H. CARPENTER

*Not given in 1903-04]*

### Courses in Low German

[16—Dutch. Elementary course in the language, with miscellaneous reading, and a general survey in lectures of the history of Dutch literature. 2 hours. Professor W. H. CARPENTER

*Not given in 1903-04; to be given in 1905-06]*

24—Old Saxon. Holthausen, *Altsächsisches Elementarbuch*. 2 hours. Dr. R. TOMBO, Jr.

### Course in Gothic

17—Gothic. Streitberg, *Gotisches Elementarbuch*. 2 hours. Dr. REMY

### Course in Germanic Philology

18—General introduction to Germanic philology. Lectures and exercises. 2 hours. Professor W. H. CARPENTER

### Germanic Seminar

A (first half-year)—The Hildebrandslied. 2 hours. Professor W. H. CARPENTER

B (second half-year)—History of the Faust legend. 2 hours. Professor THOMAS

The Seminar is open to advanced students only. Attendance at the meetings is obligatory upon candidates for the degree of Doctor of Philosophy whose major subject lies in this department.

### Public Lectures

A course of lectures in the German language on popular subjects, intended primarily for the students of the University, but to which the general public is also invited, is given yearly under the auspices of the department.

### Journal Club

The Journal Club is an organization founded in 1902 for the purpose of reviewing and discussing important contributions to recent numbers of the numerous journals devoted to Germanic studies. The Club consists of the officers, fellows, and scholars of the department. Meetings are held once in two weeks in the departmental library.

### Deutscher Verein

The Deutscher Verein of Columbia University, founded in 1898, is an association of the students and instructors of the University who are interested in the culture of the German language and literature, and in the acquisition of a more intimate knowledge of Germany, of German institutions, and of the German people than is furnished by academic study alone. The active membership consists of instructors in all departments of the University, of students in residence to the limited number of fifty, and of previous members of the Verein who

are no longer students. An honorary membership is made up of prominent German-speaking citizens of New York. Stated meetings are held on the second and fourth Mondays of each month in the room assigned to the Verein in West Hall, which is accessible at all times and forms a convenient club and reading-room.

### Equipment

The University Library offers excellent facilities for the study of German, both on the literary and the linguistic side. In German literature most periods are well represented. The Goethe collection, which consists of more than 1300 titles, affords to the student of Germany's greatest author an exceptional opportunity for the prosecution of his researches. The Scandinavian collection contains a good representation of the ancient saga and poetical literature, and most of the eminent writers of modern Norway, Denmark, and Sweden. The Holland Society library, deposited with the University in 1901, contains a considerable collection of books and pamphlets in the Dutch language from all periods.

The Library has sets and the current numbers of all the important periodicals which deal with Germanic literature and Germanic and general philology. It has also sets of periodicals no longer published, and a large collection of the transactions and publications of the learned societies of America and Europe.

A reference library, containing the most important subsidia for the critical study of the Germanic languages and literatures—dictionaries, bibliographies, biographies, histories of literature, and the like—and, independent of the main collection in the University Library, is placed in a room adjacent to the main lecture-room and the offices of the department in University Hall.

The income of the Carl Schurz Library Fund (\$10,000), contributed by citizens of New York in commemoration of the seventieth birthday of Carl Schurz, is, by the terms of the gift, devoted in perpetuity to the purchase of books in the field of the German language and literature.

The Carl Schurz Fellowship in the German Language and Literature, of the value of eight hundred dollars, the income of a fund (\$10,000) contributed by citizens of New York in commemoration of the seventieth birthday of Carl Schurz, is awarded every alternate year, beginning July 1, 1902.

### Greek

*(Including Archæology and Epigraphy)*

EDWARD DELAVAN PERRY, Ph.D.....	<i>Fay Professor</i>
JAMES RIGNALL WHEELER, Ph.D.....	<i>Professor</i>
MORTIMER LAMSON EARLE, Ph.D.....	<i>Professor of Classical Philology</i>
GONZALEZ LODGE, Ph.D.....	<i>Professor of Greek and Latin</i> <i>in Teachers College</i>

CLARENCE HOFFMAN YOUNG, Ph.D.....	Adjunct Professor
CHARLES KNAPP, Ph.D.....	Adjunct Professor of Classical Philology
GERTRUDE MARY HIRST, Ph.D.....	Tutor in Classical Philology in Barnard College
ROSCOE GUERNSEY, Ph.D.....	Tutor in Greek
STEPHEN AUGUSTUS HURLBUT, A.M....	Lecturer in Classical Philology in Barnard College

Courses **A, B, 1, 3, 4, 6,** and **14** are closed to women. Course **7** is closed to women undergraduates. The other courses are open to women on the same terms as to men.

Courses **9, 18,** and **21** are open to auditors.

Courses **A, B, 3, 4, 6, 7, 9, 14, 16, 18,** and **21** are open as electives to properly qualified students in Columbia College; but of these Courses **9, 16, 18,** and **21** are open to seniors only. For freshmen who did not present Greek at entrance Course **A** counts as a 5-hour course. It cannot be counted toward the degree by other students.

Course **18** is open as an elective to properly qualified students in Barnard College.

Courses **9, 14, 16, 18, 21, 23,** and **25** and the Greek Seminar are open to graduate students and may be counted toward the higher degrees.

Courses **6** and **7** are also open to graduate students, but may not be counted toward the higher degrees.

[NOTE.—Only courses offered in 1903-04 are here given.]

For more detailed information as to the scope of each course, the work pre-requisite to it, and the like, consult the announcement of the Division of Classical Philology for 1903-04.

### Courses

**A**—Elementary course. 5 hours. Dr. GUERNSEY

**B**—First half-year: Selected orations of Lysias. Second half-year: Homer's *Odyssey*, selections. Greek prose composition fortnightly throughout the year. 3 hours. Professor YOUNG and Dr. GUERNSEY

**1**—Elements of Greek archæology. 2 hours, first half-year only. Professor YOUNG

**3**—First half-year: Euripides' *Hippolytus*; Sophocles' *Philoctetes*; required reading (in English, French, or German, at the option of the student), and lectures on the Greek drama. Second half-year: Selections from Plato, with required reading as above. 3 hours. Professors YOUNG (first half-year) and PERRY (second half-year)

An additional hour weekly in advanced Greek composition will be offered by Dr. GUERNSEY, and students who take this may count Course **3** as a four-hour course, or Course **4** as a three-hour course.

**4**—Rapid reading of Homer. 2 hours. Professor WHEELER

**6**—First half-year: Sophocles' *Œdipus Tyrannus* and *Æschylus' Prometheus*. Second half-year: Demosthenes' *Olynthiacs* and *Philip-*



*pics.* For private reading in the course of the year, with occasional conferences with the instructor: Plato, *Protagoras* or selections. 3 hours. Professors PERRY (first half-year) and YOUNG (second half-year)

7—Greek composition, advanced course. One session weekly, with written exercises, counting as a two-hour course. Professor YOUNG

9—Lectures on Greek literature, with readings. Part I: Poetry. 3 hours. Professor WHEELER

14—New Testament Greek—Gospel of St. Matthew, Acts, and selected Epistles. 2 hours. Professor YOUNG

16—Thucydides and Demosthenes. 3 hours. Professor PERRY

18—Introduction to Greek archæology. Part II.: Sculpture. 2 hours. Professor YOUNG

21—The Acropolis at Athens; illustrated lectures. 2 hours. Professor WHEELER

23—Greek epigraphy. 2 hours. Professor WHEELER

25—Scientific Greek grammar. 2 hours. Professor PERRY

### Classical Seminar

*Latin Section:* The *Ars Poetica* of Horace and other studies. 2 hours, twice a month, second half-year. Professor PECK

*Greek Section:* Critical study of portions of the plays of Æschylus. One session weekly throughout the year, counting as a three-hour course. Professor EARLE

Attendance is obligatory upon candidates for the degree of Doctor of Philosophy, and strongly recommended to those for the master's degree, whose major subject lies in this department.

### Courses in New Testament Greek at the Union Theological Seminary

Such courses may count as *part* of the work required for the degrees of Master of Arts and Doctor of Philosophy at Columbia University; but students who intend to avail themselves of this privilege must come to an understanding with the Dean of the Faculty of Philosophy of Columbia University with regard to equivalence of courses and additional work required, at the time of registering themselves, or of renewing their registration, as candidates for a degree.

### Courses in Barnard College

A—Beginners' course: Grammar, composition, Xenophon's *Anabasis*, Homer's *Iliad*. 3 hours. Mr. HURLBUT

B—Plato: *Apology* and *Crito*, with a part of *Phædo*; first half-year. Homer: *The Odyssey* (selections); second half-year. Greek prose composition. 3 hours. Dr. HIRST and Mr. HURLBUT

3—Euripides: *Alcestis* and *Medea*; first half-year. Isocrates: *Panegyricus*; second half-year. 3 hours. Professor EARLE and Mr. HURLBUT

4—Rapid reading of Homer. 2 hours. Professors WHEELER and YOUNG

6—Sophocles: *Ajax* and *Electra*; first half-year. Aristophanes: *Clouds* and *Birds*, second half-year. 3 hours. Professors EARLE and KNAPP

7—Advanced Greek prose composition. 2 hours. Professor EARLE

8—New Testament Greek: Reading of the Gospel according to Luke and the Acts of the Apostles, with special regard to the forms and idioms of New Testament Greek. 2 hours. Professor EARLE

31—Plato: *The Republic*; first half-year. Pindar, second half-year. 3 hours. Professor EARLE

### Courses in Teachers College

Education 76—Theory and practice of teaching Greek in secondary schools—Lectures, reports, and practical work. 3 hours. Professor LODGE

Greek 51—Teachers' reading course in Xenophon and Homer. 2 hours. Professor LODGE

### Gynecology

EDWIN B. CRAGIN, M.D. . . . . Acting Professor

WILLIAM S. STONE, M.D. . . . . Chief of Clinic and Instructor

FRANK S. MATHEWS, M.D. . . . . Instructor

FRANK R. OASTLER, M.D. . . . . Instructor

HOWARD C. TAYLOR, M.D. . . . . Instructor

### Clinical Assistants

C. J. PROBEN, M.D.

WM. L. BRADLEY, M.D.

GEO. H. MALLETT, M.D.

### Courses

Courses 1 and 2 are required in the third year of candidates for the degree of M.D., and Courses 3 and 4 in the fourth year. Course 5 is optional in the fourth year.

1—The principles and practice of gynecology—Lectures, 3 a week, 2 didactic and 1 clinical, during the second half-year. Professor CRAGIN

2—Recitations and demonstrations. 1 hour a week for each student during the first half-year. Dr. MATHEWS

3—Minor operations and demonstrations to small sections at the Roosevelt Hospital. 3 times a week for two weeks, M., W., and F., at 9 A.M. Dr. TAYLOR

4—Practical instruction in diagnosis, treatment, and the use of instruments. 12 lessons for each student, at the Vanderbilt Clinic. Drs. STONE and OASTLER

5—Hospital clinic in operative gynecology—Roosevelt Hospital, McLane Operating Theatre. Dr. TUTTLE. S. at 2.30 P.M.

## History and Political Philosophy

WILLIAM MILLIGAN SLOANE, Ph.D., L.H.D., LL.D. . . . .	<i>Seth Low Professor</i>
HERBERT LEVI OSGOOD, Ph.D. . . . .	<i>Professor</i>
WILLIAM ARCHIBALD DUNNING, Ph.D. . . . .	<i>Professor of History and Political Philosophy</i>
JAMES HARVEY ROBINSON, Ph.D. . . . .	<i>Professor</i>
WILLIAM ROBERT SHEPHERD, Ph.D. . . . .	<i>Instructor</i>
JAMES THOMSON SHOTWELL, Ph.D. . . . .	<i>Instructor</i>
GEORGE WILLIS BOTSFORD, Ph.D. . . . .	<i>Instructor</i>

There are three groups of courses in this department: disciplinary, narrative, and research. Course A is required of all candidates for the A.B. degree; with it may be classed Courses 1, 2, 3, and 4. Courses 5, 6, 11, 14, 30, 31, 40, 50, and 51 are preparatory to the independent investigation of historical subjects, and are open to properly qualified students of Columbia College and Barnard College, and the rest are intended for the training of candidates for the higher degrees. These all may be supplemented and complemented by courses given in other departments which deal with subjects constituting an integral part of the domain of history: viz., history of European law, general history of diplomacy, history of American diplomacy, and the historical courses in Economics, Social Science, and Philosophy. The University likewise affords excellent opportunities for the study of anthropology, archæology, political geography, and philology in their intimate connection with historical research.

### Courses in History

A—Epochs of ancient, mediæval, and modern history. 3 hours. Columbia College, Dr. SHEPHERD and Dr. BOTSFORD; Barnard College, Dr. SHOTWELL

1—Continental European history, mediæval and modern, to the Peace of Westphalia. 3 hours. Dr. SHOTWELL

[2—Continental European history, modern and contemporaneous. 3 hours. Dr. SHOTWELL  
*Not given in 1903-04*]

3—English history to the reform bill (1832). 3 hours. Columbia College, Dr. SHEPHERD; Barnard College, Dr. BOTSFORD

4—History of the United States to the close of reconstruction (1877). 3 hours. Columbia College, Professor DUNNING; Barnard College, Dr. SHEPHERD

[5—Transitions in European history. 2 hours. Professor SLOANE.  
*Not given in 1903-04*]

6—History of Great Britain during the eighteenth and nineteenth centuries. 2 hours. Professor OSGOOD

10—Historical bibliography—The sources of mediæval and modern European history—Apparatus of historical study. 2 hours. Dr. SHOTWELL

11—Development of European culture during the Middle Ages—The Protestant revolt. 3 hours. Professor ROBINSON

[12—Mediæval institutions and culture—A research course open only to those who can read Latin and French fluently. Luchaire's *Manuel des Institutions françaises* will be used as a hand-book. 2 hours. Professor ROBINSON

*Not given in 1903-04]*

13—Opening of the Lutheran revolt (1517-26)—A research course, open only to those who can read German and Latin fluently. 2 hours. Professor ROBINSON

14a—France under Louis XVI—The antecedents and opening of the French Revolution. 2 hours, first half-year. Professor ROBINSON

14b—The age of the Revolution, from 1791 to 1815. 2 hours, second half-year. Open only to those who have taken Course 14a. Professor SLOANE

[15—The work of Napoleon—This course is open to such selected individuals as give evidence of capacity for original research, and read French and German fluently. 2 hours, first half-year. Professor SLOANE

*Not given in 1903-04]*

[16—The constitutional history of England to 1689. 2 hours. Professor OSGOOD

*Not given in 1903-04]*

18—Seminar in later mediæval and modern European history. 2 hours every other week. Professor ROBINSON

19—History of the primitive and early Catholic Church. 3 hours, first half-year. Given at the Union Theological Seminary.

20—History of the western Catholic Church and of the Protestant Reformation. 3 hours, second half-year. Given at the Union Theological Seminary.

26—Seminar in Church history. 2 hours, bi-weekly. Given at the Union Theological Seminary.

[30—Transitions in American history—This course deals with those epochs of American history where its connection with that of Europe is closest. 2 hours. Professor SLOANE

*Not given in 1903-04]*

31—Political and constitutional history of the United States. 2 hours. Columbia College, Professor BURGESS; Barnard College, Dr. SHEPHERD

32—American colonial history during the seventeenth century—Open only to approved candidates for the degrees of A.M. and Ph.D., and to such special students as receive permission to attend. 2 hours. Professor OSGOOD



[33—American colonial history during the eighteenth century—  
This course is open to the same class of students as is History 32.  
2 hours. Professor OSGOOD

*Not given in 1903-04]*

[34—European politics and the War of 1812—Research course given  
to selected individuals who show capacity for original research, and  
read French and German fluently. 2 hours, second half-year. Pro-  
fessor SLOANE

*Not given in 1903-04]*

35—The United States since 1850. 2 hours. Professor DUNNING

37—Seminar in American colonial history. 1 hour. Professor  
OSGOOD

[38—The American Revolution. Professor OSGOOD

*Not given in 1903-04]*

39—Seminar in later American history. 1 hour. Professor DUN-  
NING

[50—Greek and Roman history. 2 hours. Dr. BOTSFORD

*Not given in 1903-04]*

51—The Roman empire. 2 hours. Dr. BOTSFORD

52—Seminar in Greek and Roman history. 1 hour. Dr. BOTSFORD

53—Roman political institutions. 2 hours. Professor MUNROE  
SMITH

56—The history of western Asia and Egypt. 2 hours. Professor  
PRINCE

57—History of India and of Persia. 2 hours, first half-year. Pro-  
fessor JACKSON

58—Rise of Arabian civilization and the spread of Mohammedan-  
ism. 2 hours a week, second half-year. Professor GOTTHEIL

59—History of China. 1 hour. Professor HIRTH

For Extension courses in History, see the special announcement of  
such work issued by Teachers College.

#### Courses in Political Philosophy

40—General history of political theories. 2 hours. Professor  
DUNNING

41—American political philosophy. 2 hours. Professor DUNNING

42—Seminar in political philosophy. 1 hour. Professor DUNNING

#### Equipment

The University Library is one of the two or three best similar insti-  
tutions in the country. It contains over 330,000 volumes, among  
which are many of the great published collections for the study of  
ancient, mediæval, and modern history. The special library of his-  
tory and political science numbers upwards of 100,000 volumes. The

great libraries of New York, Astor, Lenox, and Tilden foundations, those of the New York and Long Island Historical Societies and of the Bar Association are, under certain conditions, also accessible to students. Fuller information as to courses and opportunities for historical work is given in the *Announcement of the Division of History, Economics, and Public Law*, which may be obtained by applying to the Secretary of the University. Under the auspices of the Academy of Political Science, to which advanced students are eligible as members, opportunities are given for the discussion of questions of interest as presented in papers by specialists.

The department employs in its work the best French and German historical maps and one of the four largest relief globes ever made.

### Hospital Economics

Two courses are offered in Hospital Economics under the auspices of Teachers College. For details see the *Announcement of Teachers College*, which will be sent, without charge, upon application to the Secretary of the University.

See also Botany and Zoölogy.

### Latin

HARRY THURSTON PECK, Ph.D., L.H.D.....	Professor
<sup>1</sup> JAMES C. EGBERT, Jr., Ph.D.....	Professor
NELSON G. MCCREA, Ph.D.....	Professor
CHARLES KNAPP, Ph.D.....	Adjunct Professor
GEORGE N. OLCOTT, Ph.D.....	Lecturer

Courses **x** and **y** are required in the freshman and sophomore years, respectively, of candidates who enter without Latin.

Course **A** or Course **B** is required of candidates for the degree of A.B., and is pre-requisite to **1** and **2**. Similarly **1** or **2** (or an equivalent) is pre-requisite to **3** and **4**, and one of the latter to any more advanced work.

If elementary Latin is not offered as an entrance subject, Courses **x** and **y** are pre-requisite to Course **A**. Course **B** is open as an elective to freshmen in the College.

Courses **1, 2, 3, 4, 5, 6, 8, 9, 10, 11, 16, 17, 18, 19, 21, 22, 23, 29**, and **32** may be counted toward the degree of A.B.

Courses **5, 12, 19**, and **31** count each as a partial minor or major for A.M. or Ph.D.

Course **32** counts as a minor or partial major for A.M. or Ph.D.

Course **21** counts as a partial minor for A.M. or Ph.D.

Course **22** counts as a partial minor for A.M. and partial major or minor for Ph.D.

<sup>1</sup> Absent on leave.

The Latin Seminar counts as a full minor or partial major for A.M., and partial major or minor for Ph.D. It is required of candidates for Ph.D. who take Latin as their major subject.

Courses 5, 6, 8, 9, 16, 17, 18, 19, 21, 22, 23, 28, 29, 31, 32, 33, 34, are open to graduate women students.

Courses 9, 21, 23, 28, 32, are open to auditors.

Courses 4, 6, 9, 10, 11, 16, 23, 28, 29, 34, are not given in 1903-04.

### Courses

**A**—First term: Cicero: *De Senectute* and *De Amicitia*; prose composition. Terence: *Phormio*. Second term: *Odes* and *Epodes* of Horace; prosody. 3 hours. Professor McCREA

[Given at Barnard College by Professor KNAPP and Miss HIRST]

**B**—Readings in prose and verse illustrative of Roman public and private life. 3 hours. Dr. OLCOTT

1—Tacitus: *The Agricola* and *Annals* (Book I). Horace: *Satires*. 3 hours. Dr. OLCOTT

[Given at Barnard College by Professor KNAPP]

2—Horace: *Epistles*—The *Letters* of Cicero. Sight reading. 2 hours. Professor McCREA

3—Juvenal and Martial. 3 hours. Professor PECK

4—Terence: *The Andria* and *Adelphoe*. Plautus: *The Amphitruo* and *Mostellaria*. 2 hours. Professor McCREA

[Given at Barnard College by Professor KNAPP]

5—Roman epigraphy (introductory course). 2 hours. Dr. OLCOTT

6—Rapid reading of Horace and Ovid. 2 hours. Professor PECK]

9—Lectures on the history of Greek and Roman prose fiction. 2 hours. Professor PECK]

10—Private life of the Romans. Lectures and readings. 2 hours. Professor McCREA]

11—Catullus, Tibullus, and Propertius. 3 hours. Dr. OLCOTT

[Given at Barnard College by Professor EARLE and Professor KNAPP]

12—Roman epigraphy (advanced course). 2 hours. Dr. OLCOTT

16—Lucretius (I-III and V). 2 hours. Professor McCREA]

17—Selections from Apuleius (*The Asinus Aureus*). 2 hours. Professor PECK

18—Roman satire in its historical development. 3 hours. Professor KNAPP

19—Roman oratory: Cicero's Verrine Orations. 2 hours. Professor McCREA

21—Introduction to the study of Roman numismatics. 1 hour. Dr. OLCOTT

22—Latin prose composition (advanced course). 1 hour, to count as 2 hours. Professor McCREA

[Given at Barnard College by Professor KNAPP]

[23—The *Cena Trimalchionis* of Petronius. 2 hours. Professor PECK]

[28—The history of classical philology. Lectures. 2 hours. Professor PECK]

[29—Roman tragedy. The fragments and Seneca. 3 hours. Professor KNAPP]

31—Latin bibliography. Lectures. 1 hour. Professor PECK

32—The topography and monuments of ancient Rome. 2 hours. Dr. OLCOTT

33—The topography and monuments of ancient Rome (Imperial period). 2 hours. Dr. OLCOTT

Pre-requisite: Course 32

[34—Latin versification. Theory and practice. 1 hour. Professor PECK]

x—Introductory Latin: grammar, composition, Cæsar, Cicero, Phædrus. 5 hours (counting for A.B. as 3 points). Dr. OLCOTT

y—Introductory Latin: Cicero, Vergil, and sight reading. Grammar, composition, and prosody. 3 hours. Dr. OLCOTT

Latin Seminar.—2 hours twice monthly. Professor PECK

The *Ars Poetica* of Horace

## LAW

The courses offered in Law are here indicated. For full information as to the course leading to the degree of Bachelor of Laws consult the statement concerning the School of Law.

### Municipal or Private Law

GEORGE W. KIRCHWEY, A.B.....	<i>Kent Professor</i>
FRANCIS M. BURDICK, LL.D.....	<i>Dwight Professor</i>
GEORGE F. CANFIELD, A.M., LL.B.....	<i>Professor</i>
HENRY S. REDFIELD, A.M., LL.D.....	<i>Professor</i>
CHARLES T. TERRY, A.B., LL.B.....	<i>Professor</i>
HARLAN F. STONE, A.M., LL.B.....	<i>Adjunct Professor</i>
JAMES B. SCOTT, A.M., J.U.D.....	<i>Professor</i>
ALFRED HAYES, Jr., A.M., LL.B.....	<i>Tutor</i>
JOHN D. KAPS, LL.B.....	<i>Tutor</i>
FRANCIS C. HUNTINGTON, A.B., LL.B.....	<i>Lecturer</i>
JACKSON E. REYNOLDS, A.B., LL.B.....	<i>Lecturer</i>

Courses 1 to 5, inclusive, constitute the work of the first year in the Law School and are open to seniors in the College. Courses 7 to 15, inclusive, and Course 20 are open to students who have taken the work of the first year in Law. Courses 16 to 27, inclusive, are open to students who have taken the work of the first and second years in Law



## Courses

- 1—Equity. 3 hours, second half-year. Professor SCOTT
- 2—Contracts. 4 hours. Professor TERRY
- 3—Real and personal property. 2 hours. Professor KIRCHWEY
- 4—Torts. 2 hours. Professor BURDICK
- 4a—Criminal law. 2 hours. Professor STONE
- 5—Pleading and practice. 2 hours. Professor REDFIELD
- 7—Quasi-contracts. 3 hours, first half-year. Professor SCOTT
- 8—Equity. 2 hours. Professor STONE
- 9—Real and personal property. 2 hours. Professor KIRCHWEY
- 10—Agency. 2 hours. Mr. REYNOLDS
- 11—Bailments and carriers. 2 hours. Mr. REYNOLDS
- 12—Sales of personal property. 2 hours. Professor BURDICK
- 14—Pleading and practice. 2 hours. Professor REDFIELD
- 15—Negotiable paper. 2 hours. Professor CANFIELD
- 16—Pleading and practice. 2 hours, first half-year. Professor REDFIELD
- 17—Corporations. 2 hours. Professor CANFIELD
- 18—Equity. 2 hours. Professor STONE
- 19—Evidence. 2 hours. Mr. HUNTINGTON
- 20—Insurance. 1 hour. Professor BURDICK
- 21—Partnership. 2 hours. Professor BURDICK
- 22—Real and personal property. 2 hours. Professor KIRCHWEY
- 23—Mortgages. 2 hours. Professor SCOTT
- 23a—Suretyship. 2 hours, second half-year. Professor SCOTT
- 24—Wills and administration. 2 hours. Professor REDFIELD
- 25—Trusts and perpetuities. 2 hours, second half-year. Professor CANFIELD
- 26—Bankruptcy. 2 hours, second half-year. Mr. HAYES
- 27—Damages. 2 hours, first half-year. Mr. HAYES

## Public Law and Jurisprudence

JOHN WILLIAM BURGESS, Ph.D., LL.D.....	<i>Professor</i>
MUNROE SMITH, J.U.D.....	<i>Professor</i>
FRANK JOHNSON GOODNOW, LL.D.....	<i>Eaton Professor</i>
JOHN BASSETT MOORE, LL.D.....	<i>Hamilton Fish Professor</i>

The courses in this department fall into two divisions: public law and jurisprudence. The purpose of the courses in public law is to give a complete general view of international, constitutional, and administrative law. They serve primarily to supplement the courses in the Departments of History and Economics, and to give with them

a complete system of political science. In the second place, they supplement the courses offered by the Department of Private Law, constituting with these a well-rounded legal curriculum. The courses in international, constitutional, and administrative law are also recommended to journalists, students of philosophy and theology, and in general to all who desire to understand the organization and working of governmental systems. The courses on private rights under the Constitution of the United States, on the law of taxation, on the law of municipal corporations, and on conflict of laws are more professional in their character, and are chiefly intended for law students.

The courses in Roman law and comparative jurisprudence, while constituting an integral portion of a complete legal education, will be found useful to all those who desire a general comprehension of the principles of private law rather than a professional training in its details. The introductory course upon the Roman law (21) and that upon European legal history (23) are especially recommended to students of history, economics, and philosophy.

### Courses in Public Law

#### *A—Constitutional Law*

1—Comparative constitutional law of the principal modern states—Lectures. 2 hours. Professor BURGESS

3—Private rights and immunities under the Constitution of the United States—Discussion of cases. 2 hours. Professor BURGESS

4—American constitutional law in its historical development—Lectures. 2 hours. (Identical with History 31.) Professor BURGESS

5—Advanced seminar in constitutional law—Investigation and discussion. 1 hour. Professor BURGESS

The courses in the constitutional history of Europe and England (*cf.* courses in history) are regarded as a necessary introduction to the above courses in constitutional law.

#### *B—International Law*

6—History of diplomacy—Lectures. 2 hours, first half-year. Professor MOORE

7—History of American diplomacy—Lectures. 2 hours, second half-year. Professor MOORE

8—International law—Lectures. 2 hours. Professor MOORE

10—Seminar in international law. 2 hours. Professor MOORE

#### *C—Administrative Law*

15—History and principles of colonial administration—Lectures. 2 hours, first half-year. Professor GOODNOW

16a—Administrative law of the United States and the principal European states—Lectures. 2 hours, first half-year. Professor GOODNOW

16b—Law of officers (extraordinary legal remedies). 2 hours, second half-year. Professor GOODNOW

17—Municipal science and administration—Lectures. 2 hours, second half-year. Professor GOODNOW

18—Law of taxation—Lectures and discussion of cases. 2 hours, second half-year. Professor GOODNOW

19—Law of municipal corporations—Lectures and discussion of cases. 2 hours, first half-year. Professor GOODNOW

20—Seminar in administrative law. 1 hour. Professor GOODNOW

#### Courses in Roman Law and Comparative Jurisprudence

21—Roman law I—History and institutes of Roman law: Family, things, obligations—Lectures and assigned reading. 2 hours, first half-year. Professor MUNROE SMITH

22—Roman law II—Institutes of Roman law: succession; selected cases from the *Corpus Juris Civilis*, principally in contracts—Lectures, assigned reading, and discussion. 2 hours, second half-year. Professor MUNROE SMITH

23—History of European law (early German law; Frankish law; feudalism; the canon law; the law merchant; the reception of the Roman civil law; the modern civil codes)—Lectures. 2 hours. Professor MUNROE SMITH

24—Comparative jurisprudence—Research course and advanced seminar. 2 hours. Professor MUNROE SMITH

25—Conflict of laws—Lectures and discussion of cases. 1 hour. Professor MOORE

26—Spanish civil law—Lectures. 1 hour. Professor MUNROE SMITH

29—Seminar in legal history and comparative legislation. 1 hour. Professor MUNROE SMITH

#### Manual Training

Twelve courses are offered in Manual Training under the auspices of Teachers College. For details see the *Announcement of Teachers College*, which will be sent, without charge, upon application to the Secretary of the University.

#### Materia Medica

(See page 165)

#### Mathematics

J. HOWARD VAN AMRINGE, Ph.D., L.H.D., LL.D., *Professor and Head of Department*

THOMAS SCOTT FISKE, Ph.D.....*Professor*

FRANK NELSON COLE, Ph.D.....*Professor*

DAVID EUGENE SMITH, Ph.D.....*Professor*

CHARLES EARLE BIKLÉ, A.M.....*Adjunct Professor*

JAMES MACLAY, Ph.D.....	Adjunct Professor
CASSIUS JACKSON KEYSER, Ph.D.....	Adjunct Professor
HENRY BEDINGER MITCHELL, E.E., A.M.....	Tutor
EDWARD KASNER, Ph.D.....	Tutor
GEORGE HERBERT LING, Ph.D.....	Tutor
WILLIAM FINDLAY, Ph.D.....	Tutor
CLIFFORD GRAY, A.M.....	Tutor
EDWARD ALFRED HOOK, M.S., A.M.....	Tutor
CHARLES SAVAGE FORBES, A.M.....	Assistant
JOHN AUGUST SWENSON, A.B.....	Assistant

Course A or its equivalent is prescribed for the degree of A.B. Courses 3a, 3b, 5, 6, 8, 9, 10, 11, 151 (given in Teachers College), are open to properly qualified students of Columbia College. Courses 3a, 3b, and 5 are prescribed for first-year students in the Schools of Applied Science, and Course 6 for second-year students.

Courses 151 and 101-112 may be counted toward the degrees of A.M. and Ph.D., and are open to men and women.

For the courses open to students in Barnard College see below.

For the summer courses in Mathematics, consult the *Announcement of the Summer Session*, issued in February of each year.

### Courses

A—Geometry, algebra, and trigonometry—Volumetric and spherical geometry (Davies' *Legendre*, Books 6-9); algebra, including the arithmetical and geometrical progressions, the elementary treatment of permutations and combinations, and the elementary principles of logarithms (Wells' *College Algebra*); plane trigonometry, including the use of tables of logarithms, the solution of plane triangles, the properties and relations of the trigonometric functions, and the deduction of important analytical formulæ. 3 hours. Professor MACLAY, Dr. LING, Mr. GRAY, and Mr. HOOK

3b—Algebra—The general theory of equations (Wells' *College Algebra*). 2 hours, first half-year. Professor KEYSER, Mr. MITCHELL, Dr. LING, Mr. GRAY, and Mr. HOOK

3a—Trigonometry—Spherical trigonometry with applications (Davies' *Legendre*). 2 hours, second half-year. Professor KEYSER, Mr. MITCHELL, Dr. LING, Mr. GRAY, and Mr. HOOK

5—Analytical geometry—The equivalent of Wentworth's *Analytical Geometry*. 3 hours. Professor KEYSER, Mr. MITCHELL, Dr. LING, Mr. GRAY, and Mr. HOOK

6—Calculus—Osborne's *Differential and Integral Calculus*. 3 hours. Professors VAN AMRINGE, FISKE, MACLAY, and KEYSER

8—Projective geometry. 3 hours, first half-year. Dr. LING

9—Higher algebra. 3 hours, second half-year. Dr. LING



10—Solid analytical geometry. 3 hours, first half-year. Mr. MITCHELL

11—Elementary differential equations. 3 hours, second half-year. Mr. MITCHELL

151—History of mathematics.<sup>1</sup> 2 hours. Professor SMITH

101—Advanced calculus—Introduction to the theory of functions of a real variable. 3 hours. Professor FISKE

102—Theory of functions of a complex variable. 3 hours. Professor FISKE

104—The application of the calculus to the theory of surfaces and curves in space. 3 hours. Professor MACLAY

106—Theory of groups. 3 hours. Professor COLE

107—Modern theories in geometry. 3 hours. Professor KEYSER

109—Theory of invariants. 3 hours. Professor COLE

111—Infinite series and products. 2 hours. Dr. LING

112—Theory of transformations and continuous groups. 2 hours. Dr. KASNER

#### Courses Given Separately at Barnard College

Course A is given by Dr. KASNER and Dr. FINDLAY. Courses in Analytical Geometry (No. 1, 3 hours, first half-year), in Elementary Calculus (No. 2, 3 hours, second half-year), by Dr. KASNER

Courses in the Theory of Equations (No. 3, 3 hours), and in Projective Geometry (No. 5, 3 hours), by Dr. FINDLAY; and in Calculus (No. 6, 3 hours), by Professor COLE

For Extension courses in Mathematics see the special announcement of such work issued by Teachers College

#### Equipment

In the equipment of the department of Mathematics is a large number of models, charts, and instruments. An elaborate set of models illustrates the metric system of weights and measures. A set of about fifty models of elementary solid and spherical geometry is intended to exemplify the demonstrations contained in Davies' *Legendre*. These are made of cherry wood with markings in inlaid ebony, and are of unusually large size. There are several similar models representing the different plane sections of the cone. A series of wooden models, constructed by Schroeder of Darmstadt, illustrates elementary solid geometry, and contains, in addition, examples of all the different forms of the surfaces of the second order. There is a series of models of descriptive geometry, also constructed by Schroeder. The horizontal and vertical projections are traced upon boards solidly joined together

<sup>1</sup> Other courses in the history and teaching of mathematics are also offered in Teachers College.

at right angles and of convenient size to allow in general the representation of three different models, or of three different views of the same model. The form and construction suggest a division of these models into two classes: (1) the representation in metal of lines and surfaces, adjusted upon axes, the projection of several of their positions being given; (2) the representation of solid bodies in hardwood, including the exhibition of their plane sections in various directions and the intersections of different surfaces and solids.

A collection of models, which was presented to the department by Dr. Seth Low, having been purchased by him from the German University Exhibit at the Chicago Exposition in 1893, illustrates analysis situs, theory of functions of a complex variable, surfaces of higher order, their singularities and curvature, and line-geometry.

A series of charts illustrates the theory of plane algebraic curves, especially those of the fourth order, the resolution of higher plane singularities into equivalent elementary singularities, the expression of functions by means of infinite series and infinite products, and conformal representation by means of algebraic and elliptic functions.

The collection of mathematical works in the Library of the University is especially rich in treatises and in sets of collected works of mathematicians. All the mathematical journals of importance are regularly received, and the Library possesses complete sets of most of them.

### Mechanical Engineering

FREDERICK R. HUTTON, E.M., Ph.D.....	<i>Professor</i>
RALPH E. MAYER, C.E.....	<i>Adjunct Professor</i>
IRA H. WOOLSON, E.M.....	<i>Adjunct Professor</i>
AMASA TROWBRIDGE, D.E.....	<i>Adjunct Professor</i>
CHARLES E. LUCKE, M.S., Ph.D.....	<i>Instructor</i>
SAMUEL O. MILLER, C.E.....	<i>Tutor</i>
THOMAS H. HARRINGTON, C.E.....	<i>Tutor</i>
ABBOT M. CREGIER, Mech.E.....	<i>Tutor</i>
RICHARD W. BERLINER.....	<i>Assistant</i>
CHARLES RUSSELL RICHARDS, B.S....	<i>Professor of Manual Training in</i> <i>Teachers College</i>
CHARLES P. BENNS, E.M.....	<i>Instructor in Teachers College</i>
CHARLES C. SLEFFEL.....	<i>Instructor in Teachers College</i>
CHARLES W. WEICK, B.S.....	<i>Instructor in Teachers College</i>

Special students are admitted to the courses for which previous training may have fitted them. All courses intended for undergraduates in the Schools of Applied Science may be pursued by graduates of those or other schools of like grade and standing as graduate courses, the instruction for such persons being carried farther in specialization than the time available permits to candidates for undergraduate degrees. The instruction for such advanced students will be by

prescribed reading, by problems assigned, and by work in the mechanical laboratories under individual instruction. These supplementary courses will vary in difficulty with the amount of time necessary, according to the needs of the individual and the subject. Courses 10, 11, 12, and 13 are pre-requisites for all graduate courses. Experimental investigation is a special feature of such work in Courses 10 to 17, 19, 24, and 25.

*For fuller information regarding the topics covered in these courses see the Announcement of the Courses in Mechanical Engineering.*

### Courses

1—Elementary mechanical drawing—Use of instruments, elementary projections. 2 hours a week lectures, and 5 hours a week in the first year; 2 hours lectures, and 5 hours draughting-room in the second year. Professor MAYER, Mr. HARRINGTON, and Mr. MILLER

2—Specialized engineering drawing—Working and isometric drawing of machinery, furnaces, and structural work. 2 hours a week lectures, second year; 5 hours a week draughting-room. Professor MAYER, Mr. HARRINGTON, and Mr. MILLER

3 and 4—First-year shop-work—Carpentry, framing, and joinery. 2 afternoons a week shop practice in shops of Teachers College. Mr. WEICK

5—First-summer shop-work—Pattern-making and foundry-work, 100 hours in 3 weeks in June. Mr. WEICK

6—Second-year shop-work—Forging. 1 hour conference, and four laboratory periods first half-year, and two periods for second half-year. Mr. SLEFFEL

7—Second-year shop-work—Bench-work. Machine-tool work. 1 hour a week conference for instruction, and two laboratory periods, second half-year. Mr. BENNS

8—Second-summer shop-work—Machine-tool work continued. 100 hours in 3 weeks in June. Mr. BENNS

9—Third-year shop-work—Machine-tool work, with special appliances for rapid and economical production. 2 afternoons per week, first half-year. Mr. BENNS

10—Properties of materials—Properties of constructive materials, tension, compression, transverse, and abrasion tests; protecting metal work; bearing metal alloys. 2 hours, first half-year. Professor WOOLSON

11—Engineering of power plants—Steam-engines and their mechanisms. 1 hour, second half-year. Professor HUTTON

12—The steam-engine and its accessories—The power plant continued. 2 hours, first half-year. Professor HUTTON

13—The steam-boiler and its accessories—The power plant concluded. 2 hours, second half-year. Professor HUTTON

**14**—Experimental mechanical engineering—Laboratory methods. Calibration of instruments; solution of problems in power generation, transmission, and utilization with hypothetical data. 1 hour. Dr. LUCKE

**15**—Experimental mechanical engineering laboratory—Calibration of thermometers, pressure gauges, indicators, planimeters; weirs, nozzles, meters; dynamometers and power scales, and the like. 1 afternoon. Dr. LUCKE

**16**—Testing materials of engineering—Tensile, transverse, compressive, and other resistances of structural materials. Afternoon hours. Professor WOOLSON

**17**—Experimental mechanical engineering—Continuation of Course **14**. Relating to tests of Course **24**. 1 hour, first half-year. Dr. LUCKE

**18**—Machinery and mechanism—Conversion of motion, teeth of wheels, general mechanism. 2 hours. Professor WOOLSON

**19**—Heat and its applications—Fuels for motive power, combustion, transfer of heat, heating surface, gas and air engines, combined vapor engines, air compressors, refrigerating machinery. 3 hours, first half-year, for civil, mining, electrical, and metallurgical students. Professor HUTTON

**20**—Motors other than steam. 1 hour, second half-year. Professor HUTTON

**21**—Dynamics of motors—Dynamometers, governors, regulators. 1 hour, second half-year. Professor HUTTON

**22**—Engineering design and drawing—Graphic statics of forces, moments, and framed structures. 2 hours, first half-year. 1 hour, second half-year; afternoon periods in draughting-room. Mr. HARRINGTON

**23**—Valve-gearing for engines—Common valve-gear, polar diagram design, link-motions, cam-gears; variable cut-off mechanisms. 1 hour, first half-year, and afternoon work in draughting-room. Professor TROWBRIDGE

**24**—Experimental mechanical engineering laboratory—Continuation of Course **15**. 1 afternoon per week, first half-year. Dr. LUCKE

**25**—Experimental research—Methods of approaching new problems. Theses and dissertations. 1 hour, second half-year. Conferences at convenience. Dr. LUCKE

**28**—Steam-engine design and advanced drawing—The theory of crank-effort, fly-wheels, governors, balancing, and stresses in built-up framing; design of engine-details. 2 hours, with afternoon work in drawing-room. Professor TROWBRIDGE

**29**—Shop and factory organization and management—Productive departments of a shop. Elements of shop-cost. Classification of



machine-operations; interchangeable systems; divisions of labor; time-keeping, cost-keeping in the shop. 1 hour a week second half third year. Professor HUTTON and Mr. BENNS

30—Work-shop economics and specifications—The manufacturing engineer. Principles underlying economic production in shops; stock or staple product and contract work. Labor systems, days'-work, piece-work, contract systems, premium plans, profit- and gain-sharing. Shop-order systems; department organization. 1 hour for a year and a half. Professor HUTTON

31—Marine-engine design—Theory and practice of design of structural and working parts. Engine details. Marine-boiler design. 2 hours for Alternative D; 1 hour for Alternative E. Professor TROWBRIDGE and Mr. CREGIER

32—Naval architecture—Methods of calculating areas and volumes as applied to ship forms; trim, and moment to alter trim; statical stability; curves of stability; weights and centre of gravity of hull and equipment. Calculations for a given ship. 2 hours for Alternative D; 4 hours for Alternative E. Professor TROWBRIDGE and Mr. CREGIER

33—Ship-building—Materials; types of vessels; lines and models. Draughting of general arrangement. The problem of design. Initial cost and economy of operation, with regard to speed and carrying capacity. 1 hour for Alternative D; 2 hours for Alternative E. Professor TROWBRIDGE and Mr. CREGIER

34—Marine auxiliaries, appliances, and materials. 2 hours. Mr. CREGIER

35—Vacation class in mechanical engineering—During the latter half of the school year visits are made to shops, factories, iron and steel works, and pumping stations, for the study of practice in these lines. The instruction is conducted by Professor HUTTON, Professor TROWBRIDGE, and Assistants

36—Summer work between first and second years—Memoir or drawings.

37—Summer work between second and third years—Memoir or drawings.

38—Summer work between third and fourth years—Memoir, test, report, or special laboratory work as may be directed in each case by the Professor of Mechanical Engineering

39—Graduation thesis.

40—Special problems and original investigations in advanced mechanical engineering, with conferences, laboratory work, and design as required. Major subject for degree of Ph.D. Pre-requisites: all courses offered in the Department of Mechanical Engineering.

**41—Machine design—**Resistance and elasticity of materials; simple stresses and deformations; combined stresses. 3 hours, first half-year; 4 hours, second half-year, with afternoon work in drawing-room. Professor TROWBRIDGE and Mr. CREGIER

**42—Propelling machinery—**Economics of the marine engine; multiple expansion; steam jacketing; re-heating. Power required for propulsion; the resistance of ships; relations of speeds and powers. 2 hours. Professor TROWBRIDGE

**43—Locomotive engineering and design—**The locomotive problems: train resistances, line resistances, traffic obligations, time obligations, limitations of weight, length, height, and speed. 3 hours, first half-year. Professor HUTTON

**44—Locomotive accessories—**(1) The tender and tank, capacities and structure; effect as limitations on power or haul; draw-bars and couplers; sanders; signal-systems, bell, whistle, head-light, etc. (2) Railway roundhouses and repair shops. (3) Water and coaling stations. Turntables. (4) Mechanically operated switch and signal stations. (5) The testing department of the railway.

**45—Locomotive specifications, manufacture, and accidents—**(1) Detail study of designs of accepted practice. (2) Locomotive building. (3) Costs of production. (4) Accidents and breakages.

**46—Locomotive testing and management—**(1) Consumption of coal per H.P.; per square foot of grate; per ton-mile. (2) Consumption of water per H.P.; per ton-mile. (3) Tractive effort at various speeds. (4) Combustion problems in the locomotive. (5) Road tests and operation of engines.

**47—Locomotive history and evolution—**(1) Historic types. (2) Steam *vs.* electric traction on trunk and branch lines. (3) Lines of development of locomotive.

**48—Traction engines and trucks and motor vehicles—**(1) Self-propelling road engines. (2) Street railway engines. (3) The powering of automobiles. The gasoline engine for automobiles. Transmission machinery and reversing systems. Accidents and failures of the motor and gear.

**44 to 48 form one course of 3 hours per week. Professor HUTTON**

**49—Mould-loft practice—**Afternoon work. Professor TROWBRIDGE and Assistants. (*To be organized.*)

**50—Mechanical engineering—**Principles and design of the gas engine. Quantitative study of cycles and phases. Properties of explosive mixtures. The gas engine using gas fuel and liquid fuel. M.E.P. for various fuels and compressions. Mechanical design of gas engines

3 hours per week, first half-year; 2 hours per week, second half-year.  
Dr. LUCKE

51—Mechanical engineering—Advanced laboratory course in the gas engine. Tests of different classes of combustion. Effective specific heat with internal combustion. Dr. LUCKE

103, 104—First-year shop-work—Short course in wood-working for Electrical and Civil Engineers. 1 afternoon per week part of the year.  
Mr. WEICK

106, 107—Second-year shop-work—Short course in forging and machine-shop for Civil and Electrical Engineers. 1 hour lecture, first half-year, 1 afternoon per week part of the year. Mr. SLEFFEL and Mr. BENNS

110—Properties of materials—First half: Sources of timber supply, inspection, practical study of planks, logs, and trees; causes of decay and processes of preservation; fireproofing, etc. 2 hours per week, second half-year. Professor WOOLSON

114—Experimental mechanical engineering—Short course for electrical, civil, and mining engineers, made of selections from mechanical Engineering 14. Third year. Dr. LUCKE

115—Mechanical engineering laboratory—Short course for electrical, civil, and mining engineers, made of selections from Mechanical Engineering 15. Third year. Dr. LUCKE

117—Continuation of 114. Fourth year. Dr. LUCKE

119—Heat and heat engines—Fuels for motive power, combustion, transfer of heat, heating surface, generation of steam, chimneys, artificial draft, smoke prevention, use of steam in engines, super-heating; gas and air engines, combined vapor engines, ammonia and other vapor engines, air compressors, refrigerating machinery. 1 hour a week lectures and recitations, third year, for mechanical engineers only.  
Dr. LUCKE

124—Continuation of 115. Fourth year. Dr. LUCKE

### Equipment

The Department of Mechanical Engineering both has its own special equipment and also enjoys the admirable and complete equipment of other departments for the use of its students.

THE WORKSHOPS are located in the Macy Manual Arts building of Teachers College, 120th Street. The wood-working course is planned to lead up to pattern-making and foundry-work. The foundry division has facilities for bench and floor moulding, and for limited work

with sweeps. The second division includes the shops for metal-working.

THE MECHANICAL LABORATORIES, properly so called, are located partly in the great basement annex area north of Engineering and beneath the esplanade in front of Havemeyer, partly in Engineering, and partly in the great Power House. Their area exceeds 9000 square feet, giving a length in one span of over 210 feet and a width of 32 and 35 feet. The five subdivisions are, respectively, the Locomotive Laboratory the Steam and Motive-Power Engineering Laboratories, the Air- and Gas-Engine Laboratory, the Hydraulic Motors Laboratory, and the Testing Laboratories.

THE LOCOMOTIVE LABORATORY, OR LABORATORY OF TRANSPORTATION ENGINEERING, forms a unique and impressive department of the mechanical laboratories, by reason of the presence of the full-size passenger express locomotive engine "Columbia," presented to the department by the Baldwin Locomotive Works of Philadelphia. It is a standard-gauge engine of the Vaucrain compound type, having four cylinders, and a power represented by 1600 H.P. Its weight is sixty-three tons, of which eighty thousand pounds rest upon the four drivers and is available for adhesion and traction.

THE STEAM AND MOTIVE-POWER ENGINEERING LABORATORY occupies an area of 84 x 85 feet in the centre of the great laboratory space, and has been made a memorial to the late Edward P. Allis by the gift of the principal features of its equipment by his sons, the Messrs. Allis of Milwaukee.

THE SECTION OF DIRECT-COMBUSTION ENGINES, illustrating motors using other media than steam as heat-carrier, embraces two Otto gas-engines, one of 10 H.P. and one of 15 H.P.; a 10 H.P. Nash engine, a Hornsby-Akroyd oil-engine, and an Ericsson and a Rider caloric pumping engine.

THE HYDRAULIC MOTORS LABORATORY, occupying a space of 67 feet long and 32 feet wide, is at the east end of the laboratory, and has been made a memorial gift by Mr. Charles C. Worthington, and is known as the Henry R. Worthington Laboratory.

THE TESTING LABORATORIES are equipped with high-grade testing machines for tensile, transverse, torsion, and compression tests.

For description in detail of the equipment of these laboratories, reference may be made to the Announcement of the Courses in Mechanical Engineering, which may be had upon application to the Secretary of the University.

THE POWER PLANTS of the University at the Morningside site, and at the College of Physicians and Surgeons, at 59th Street and Tenth Avenue, offer unusual facilities for tests and investigations on a considerable scale, and add the strength of this administrative equipment



to the distinctly laboratory equipment listed above. Students of Mechanical Engineering are permitted to have access to all this additional machinery.

THE DRAUGHTING ROOMS on the top floor of Engineering are splendidly lighted and of very large extent, and are fitted not only with the best forms of drawing tables and furniture, but also with extensive collections of patterns, models, and illustrative drawings, blue prints, photographs, and prints, which are useful both as copies and for training in design.

THE CABINETS OR MUSEUM COLLECTIONS OF MECHANICAL ENGINEERING are located on the first or main floor of Engineering at the right of the entrance. They are subdivided into three groups or alcoves. In the first are exhibited models, specimens, and samples, of the appliances and material referred to in the lectures on steam and motive-power engineering; the second exhibits mechanisms, gearing, and appliances for the transmission of power and conversion of motion; while the third is specially rich in specimens illustrating the properties of engineering materials, and particularly their behavior under strain, their methods of fracture, and the effects of corrosion, abrasion, impact, and the like. Some of these exhibits are unique.

LECTURE- AND CLASS-ROOM ILLUSTRATION is effected by extensive use of material from the collections, and of photographs exhibited as lantern-slides by projection in an illuminated room, by drawings and blue prints, and by electrotype prints and wall diagrams. Great service is made also of typewritten monographs and notes manifolded and distributed to the student.

### Summer and Vacation Work

To derive the advantages possible from continuous work in the shop, two summer classes are maintained, each covering about one hundred working hours, beginning June 1. If necessary another similar term will be arranged for September. These form parts of the regular shop-work course of Mechanical Engineering, but are also intended to permit students from other schools, where these facilities are lacking, to comply with the requirements of the regular course by extra application and overtime work.

During the session, and on occasional holidays, students are given opportunities to visit engineering works, machine shops, factories, and industrial establishments in the city and its environs. More elaborate excursions are arranged for the advanced students to special places or districts, under the supervision of the professors or instructors. The summer between third and fourth years is intended to be specially used for work in connection with the final thesis, or in tests, or in actual running of machinery.

## Mechanics

ROBERT SIMPSON WOODWARD, C.E., Ph.D.....	Professor
MICHAEL IDVORSKY PUPIN, Ph.D.....	Professor
JOSEPH CLEMENT PFISTER, A.M.....	Instructor
ALBERT P. WILLS, Ph.D.....	Instructor
CHARLES P. WESTON, A.M.....	Assistant

Courses 3 and 10-18 are open to women on the same terms as to men.

For fuller information as to the scope of the courses in this department, the conditions under which certain of them may be counted toward the higher degrees, the pre-requisites for each course, and the like, consult the *Announcement of the Division of Mathematical and Physical Science*, which may be obtained, without charge, from the Secretary of Columbia University.

## Courses

1—Analytical mechanics. Rankine's *Applied Mechanics* is used as a text for reference. Particular attention is given to the doctrine of units and dimensions of units, and to problems affording actual applications of principles. 3 hours. Professor WOODWARD

2—Elementary mechanics. Loney's *Elements of Statics and Dynamics* is used as a text. 2 hours. Mr. PFISTER

3—Theoretical mechanics. This requires familiarity with the elements of the differential and integral calculus. Mr. PFISTER

4—Thermodynamics, with special reference to its bearing on the theory of heat engines. 3 hours, second half-year. Professor PUPIN and Dr. WILLS

5—Elementary thermodynamics and hydromechanics. Thermodynamics, 2 hours, first half-year; hydromechanics, 2 hours, second half-year. Mr. PFISTER

6—Theory of dynamo and motor (introductory), covering elements of the theory of electric, magnetic, and electrodynamic potential, theory of electro-magnetic and electrodynamic induction, and its application to the theory of an ideal dynamo. 2 hours, first half-year. Dr. WILLS

7—Theory of direct-current dynamo and motor, covering Hopkinson's theory of dynamo and motor designing, and Froelich's method of dynamo and motor testing. 3 hours, second half-year. Professor PUPIN and Dr. WILLS

8—Theory of alternators and transformers. 3 hours, first half-year. Professor PUPIN

9—Theory of variable currents, particularly the theory of polyphase and of high frequency and high potential currents. 3 hours, second half-year. Professor PUPIN

10—Advanced theoretical mechanics—General principles of kinematics, statics, and kinetics; methods of Lagrange, Hamilton, and Jacobi; application of the doctrine of energy to the interpretation of mechanical phenomena. Lectures, 2 hours. Professor WOODWARD

11—Theory of the potential function—General exposition of theory; derivation of equations of Laplace and Poisson, and theorems of Gauss, Green, and Stokes; with application to problems in gravitation, hydromechanics, static electricity, and terrestrial magnetism. Lectures, 2 hours. Professor WOODWARD and Dr. WILLS

12—Geodynamics—Amount and distribution of the earth's mass; phenomena of precession, nutation, and oceanic tides; variation of density, gravity, and pressure within the earth; thermal properties and secular contraction; mechanics of crumpling and crust movements. Lectures, 2 hours. Professor WOODWARD

13—Mathematical theory of elasticity—Analysis of stresses and strains, and expression of strains in terms of stresses; discussion of potential energy of strained media and the constants essential to define them; theory of wave motion in elastic media, with applications to sound and light. Lectures, 2 hours. Professor WOODWARD

14—Maxwell's theory of electricity and magnetism. Lectures, 2 hours. Professor PUPIN

14a—Theory of Bessel's functions and spherical harmonies. Lectures, 1 hour. Professor PUPIN

15—Electro-magnetic theory of light—Theory of dispersion, absorption, and polarization. Lectures, 3 hours, first half-year. Professor PUPIN

16—Advanced thermodynamics, including its application to thermoelectricity and thermomagnetism, physical chemistry, and caloric engines. Lectures, 2 hours. Professor PUPIN

17—Theory of oscillations. 2 hours. Professor PUPIN

18—Theory of the conduction of heat in solids; with applications to spheres, cylinders, and parallelipeds. Lectures, 2 hours. Professor WOODWARD

19—Analytical mechanics, abridged course. 2 hours. Dr. WILLS

20—Thermodynamics, abridged course. 2 hours. Dr. WILLS

21—Elementary mechanics. Loney's *Elements of Statics and Dynamics*. 3 hours, first half-year. Mr. PFISTER

A—Undergraduate Courses<sup>1</sup>

COURSE PRE-REQUISITES	REQUIRED OF	DESCRIPTION AND INSTRUCTORS
1—Chemistry I } Physics I }	Third-year students in Metallurgy, Mining Engineering, and Chemistry.	General metallurgy. 2 hours lectures during six weeks, first half-year. Mr. SROUGHTON
2—Course I.....	Fourth-year students in Mining Engineering and Industrial and Organic Chemistry.	Metallurgy of steel and iron—Shorter course. 3 hours a week during January. Mr. SROUGHTON
3— “ .....	Second-year students in Civil, Mechanical, and Electrical Engineering.	Metallurgy of iron and steel—Longer course. 2 hours lectures, second half-year. Professor RICHARDS
4— “ .....	Third-year students in Metallurgy. Fourth-year students in Analytical Chemistry.	
5— “ .....	Fourth-year students in Metallurgy, Mining Engineering, and Chemistry.	Metallurgy of copper. 2 hours lectures during October, November, and December. Professor HOFMAN
6— <sup>2</sup> Courses 3, 4, and 5.....	Third-year students in Metallurgy.	Metallurgy of the other non-ferrous metals. 2 hours recitations during November, December, January, and through second half-year. Mr. SROUGHTON
6A— <sup>2</sup> “ “ “ .....	Fourth-year students in Mining Engineering.	Laboratory work—Longer course. 3 afternoons a week, second half-year. Professor HOWE, Mr. SROUGHTON, and Dr. BOLLES
20—.....	Students in Metallurgy and Mining Engineering, between third and fourth years.	Laboratory work—Shorter course. 10 afternoons, second half-year. Professor HOWE, Mr. SROUGHTON, and Dr. BOLLES
21—.....	Students in Metallurgy and Mechanical Engineering, between third and fourth years.	Summer course in non-ferrous metallurgy. Mr. SROUGHTON and Dr. BOLLES
		Summer course in iron and steel. Mr. SROUGHTON

<sup>1</sup> Courses 1, 3, and 6A, or 1 2, 4, and 6A, or 4, 5, and 6A together count as a minor for the degree of A.M. or Ph.D.<sup>2</sup> Pre-requisite or parallel.



## Metallurgy

<sup>1</sup> HENRY M. HOWE, A.M., B.S.....	<i>Professor</i>
BRADLEY STOUGHTON, Ph.B., B.S.....	<i>Instructor</i>
MYRICK N. BOLLES, Ph.D.....	<i>Tutor</i>
HEINRICH O. HOFMAN, E.M., Met.E., Ph.D.....	<i>Lecturer</i>
JOSEPH W. RICHARDS, Ph.D.....	<i>Lecturer</i>
JOHN F. THOMPSON, B.S.....	<i>Assistant</i>

Non-resident lecturers for 1903-04: James Douglas, LL.D., President of the Copper Queen Consolidated Mining Company; H. O. Hofman, E.M., Met.E., Ph.D., Professor of Metallurgy, Massachusetts Institute of Technology; Joseph W. Richards, Ph.D., Professor of Metallurgy, Lehigh University; Richard Moldenke, Ph.D.; Edward D. Peters, M.D.; Joseph Struthers, Ph.D.; J. Parke Channing, E.M.; Chas. Kirchhoff, Editor of *The Iron Age*; John H. Janeway, E. M., Engineer for John A. Roebling's Sons Co.

## Courses

*For fuller description of courses, see the Announcement of the School of Mines.*

### A—Undergraduate Courses

(See page 141)

Special students who are not graduates of some college or scientific school can rarely be admitted to these courses. Great stress is laid on the Metallurgical Laboratory courses.

### B—Graduate Courses

Special courses, consisting of personal instruction and original experimental investigation, will be arranged for advanced students according to their individual needs and ability. Some of these investigations will be made at metallurgical works into processes in actual use there, others in the metallurgical and analytical laboratories of the department.

Nineteen of these courses have been outlined and are set forth in the Announcement of the School of Mines. They include advanced courses in pyrometry, the microstructure of metals and alloys, the chemistry of roasting processes, etc.

### C—Summer Courses

Two courses of one week each are given at metallurgical works in studying the operations there carried out. The students are given individual and class instruction and are required to make complete descriptions of the various processes, including sketches of furnaces

<sup>1</sup> Absent on leave

and apparatus. These courses are held in the vacation between the third and fourth years. Course 20, required of students in Mining Engineering who visit copper, lead, gold, and silver works; Course 21, required of students in Mechanical Engineering who visit iron and steel works. As the two courses are given at different times, students in metallurgy are required to attend both. Mr. STOUGHTON and Dr. BOLLES

**METALLURGICAL EXCURSIONS**—During the term the students are taken to the metallurgical establishments in the vicinity of the city, embracing iron blast furnaces, and Bessemer, open-hearth, and puddling works, the smelting of lead and copper ores, the Bessemerizing of copper matte, the refining of copper by furnace and electrolytic methods, the desilverizing of base bullion by zinc, and the parting and refining of gold and silver by both electrolytic and acid methods.

For Extension course in Metallurgy see the special announcement of such work issued by Teachers College

### Equipment

**LECTURE DIAGRAMS**—There is an important collection of large lecture diagrams, illustrating the various metallurgical furnaces and appliances, or showing graphically the sequence of operations in many metallurgical processes, and illustrating these processes in a realistic way.

In addition the lectures are illustrated, not only by the models referred to below, but more especially by actual demonstrations, as, for instance, in the heat-treatment of metals, in the wet metallurgical processes, in the rolling of metals, and in other like ways.

**MODELS AND DRAWINGS**—There is an excellent collection of models of metallurgical apparatus, furnaces, Bessemer converters, roll-trains, etc., and a very large number of detailed drawings, most of them copied from the working drawings of establishments in actual operation.

**METALLURGICAL COLLECTION**—There is a collection of about 3000 specimens of ores, metals, etc., and the intermediate and final products of the more important metallurgical processes. Suites of specimens of great educational value are added frequently.

**MICROSCOPIC SPECIMENS**—Microscopic sections of metals and alloys, and photomicrographs of them, are prepared by the department and received by gift and exchange, and are rapidly forming a valuable collection, especially important to students of the micrography of metals.

**ANALYTICAL LABORATORY**—The department has an analytical laboratory open to the students in metallurgy.

**METALLURGICAL LABORATORY — I. Instruments of Precision of Metallurgy**—Of these the most important are pyrometers, calorimeters, and microscopes for examining metals and alloys. To pyrometry very great attention is paid, and to this end there are enough Le Chatelier thermo-electric pyrometers to give each student the

exclusive use of one throughout his course. In addition there are Le Chatelier pyrometers of great precision, and two with autographic attachments of the Roberts-Austen and Campbell types, and other well-known types.

For the extremely important subject of the microscopic study of metals, many powerful microscopes specially adapted to this work are provided, together with appliances for grinding, polishing, and photo-microscopy. There are many other valuable instruments, such as sclerometers, a drop-testing machine, special testing machines for metals, ammeters, etc.

2. *For Analytical Metallurgy*, or the study of the principles and reactions of metallurgy taken singly as distinguished from the several industrial processes each taken as a unit, besides the instruments just enumerated there are many special furnaces, gas forges, a small power-driven roll-train, etc.

3. *For Applied Metallurgy*, the laboratory has a cupola furnace, an English cupelling furnace, a small reverberatory roasting furnace, a set of lixiviating and precipitating vats, a battery of amalgamating pans, kettles for desilverizing lead, a chlorinating barrel, storage batteries, voltmeters, and ammeters for electrolysis, etc.

Besides all this special apparatus there are also the common forms, such as crucible melting furnaces, muffles, etc., and ores, refractory materials, and fluxes.

There is a large assortment of alloys, and especially of steels and irons, which give opportunity for an extended range of investigation into their properties.

4. *Advanced Students*—The laboratory offers to advanced students and properly equipped practitioners unusual advantages for investigating with great accuracy the scientific and many of the economic problems of metallurgy.

**METALLURGICAL LIBRARY**—The metallurgical department has its own metallurgical library and reading room, containing about twelve hundred volumes of metallurgical treatises, text-books, periodicals, etc.

## Mineralogy

ALFRED J. MOSES, E.M., Ph.D.....	<i>Professor</i>
LEA McI. LUQUER, C.E., Ph.D.....	<i>Instructor</i>
AUSTIN FLINT ROGERS, A.B., Ph.D.....	<i>Tutor</i>
J. CRAWFORD, Jr., B.S.....	<i>Assistant</i>

Courses 2, 3, 5, 6, and 12 are open to properly qualified students in Columbia College. Course 12 is required of first-year students in Mining Engineering, Metallurgy, and Chemistry; Course 5, of second-year students in Civil Engineering; Course 6, of third-year students in Mining Engineering and Metallurgy; and Course 8, of third-year students in Analytical and Organic Chemistry.

Courses 5, 6, 7, 9, 10, 11, and 12 may be counted toward the degrees of A.M. and Ph.D. Course 7 is especially a minor course for geologists, Course 9 a minor course for chemists, and Courses 10 and 11 major courses for mineralogists. For details see the *Announcement of the Division of Geology, Geography and Mineralogy*, which will be furnished on application to the Secretary of the University.

Courses 7, 9, 10, and 11 are open to women.

The following courses or their equivalents are pre-requisite: Physics 31 for Courses 2, 3, 12; Chemistry 6 for 3, 12; Course 2 for 8; Course 3 for 7, 9, 10, 11; Course 5 for 6.

### Courses

12—Descriptive and determinative mineralogy — First half-year: The elements of crystallography; the use of the blowpipe in determination of silicates and borates; the minerals of carbon and sulphur, the borates and the rock-forming silicates. Second half-year: The elements of optical mineralogy; the blowpipe analysis of ores and other substances, and the study of the important economic minerals. 3 hours lectures and conferences, 2 afternoons laboratory. Professor MOSES, Dr. LUQUER, Dr. ROGERS, and Mr. CRAWFORD

2—Crystallography — General characters, laws, forms, simple measurements, and calculations. 2 hours lectures and conferences, first half-year. Professor MOSES

8—Physical crystallography—Short laboratory course. 1 hour lecture, 1 hour laboratory, second half-year. Professor MOSES

3—General mineralogy—Principles and laws; crystal forms, appearance, properties, and practical determination of common minerals; physical properties of crystals with elementary determination of physical constants and geometric form. 2 hours lectures. 1 afternoon laboratory. Professor MOSES and Dr. ROGERS

5—The minerals of building-stones — Study of common species, their properties, methods of determination, and their economic effect on building-stones. 2 hours lectures, and one afternoon laboratory during first half-year. Dr. LUQUER and Dr. ROGERS

6—Optical mineralogy—Principles, apparatus, and distinguishing characters of minerals in thin sections. 2 afternoons laboratory for two months. Dr. LUQUER and Dr. ROGERS

7—Optical mineralogy—Longer course, including determination of optical constants; study of microstructure; microchemical tests; separation of constituents and preparation of sections. 1 hour lecture, 1 afternoon laboratory. Dr. LUQUER

9—Physical crystallography—Optical, thermal, electric, and magnetic properties of crystals, with experiments; the geometric form with measurement and delineation; the effects of mechanical forces;



theories of structure. 1 hour lecture and 1 afternoon laboratory. Professor MOSES

10—Physical crystallography—Longer course, including study of the crystals of some group. 12 hours for two years. Professor MOSES

11—Mineralogy—Study of assigned group or species. 12 hours for two years. Professor MOSES

For Extension course in Mineralogy see the special announcement of such work issued by Teachers College.

### Equipment

The work of the students in the college courses and in general mineralogy is performed in the lecture room, in the blowpipe laboratory, a large room with conference tables and seats for about 75 men, and in the adjoining conference-room, in which are the student collections of crystal models and minerals and several thousand unlabelled specimens used in determinative work. The department possesses also about 1200 sections of minerals and rocks, and 1500 crystal models in wood and glass. Students in optical mineralogy use a separate room with north light, and for crystal measurements and monochromatic light determinations there is provided a large dark-room.

Attached to the department is the Egleston Mineralogical Museum, containing about 30,000 labelled specimens, and including a systematic collection, an economic collection of ores, building materials, and minerals used in chemical industries, a collection illustrating the genesis and alteration of minerals, a collection illustrating the characters of minerals, and small collections of artificial minerals and New York City minerals.

Among the collections of minerals that have been presented to the museum from time to time, the largest is that of Dr. Egleston, consisting of about 5000 specimens. Others that may be mentioned are: the Gillmore collection, made in Paris under the direction of the Abbé Haüy, and presented by the late Gouverneur Kemble of West Point; a collection of Schulsberg (Wis.) stalactites, exhibited at the Sanitary Fair; a fine suite of Russian minerals, presented by the Czar; a collection of American minerals, presented by the late Geo. T. Strong; two of the finest cerussites in the world; the Julien collection of minerals from Chesterfield, Mass.; the collection of Professor How, of King's College, Nova Scotia; and a very valuable collection made by Dr. Egleston in Japan.

In addition, a large number of gifts have been received, and these have been supplemented by careful purchasing and exchanging.

## Mining

HENRY S. MUNROE, E.M., Ph.D.....	Professor
<sup>1</sup> ROBERT PEELE, E.M.....	Adjunct Professor
EDWARD L. KURTZ, E.M.....	Instructor
ROSSITER W. RAYMOND, Ph.D., LL.D.....	Lecturer on Mining Law
JAMES FARLEY McCLELLAND, E.M.....	Lecturer
HOWARD RACE STEWART, E.M.....	Lecturer

*For a more detailed statement of the scope of the work in Mining the reader is referred to the special announcement of the School of Mines for 1903-05.*

Courses 1, 2, 3, 7a, and 11 are required in the third year, and 4, 5, 6, 7, 8, 9, and 10 in the fourth year, of candidates for the degree of Engineer of Mines.

Courses 3 and 7a are required in the third year, and 4, 5, and 10 in the fourth year, of candidates for the degree of Metallurgical Engineer.

All the above courses, 1 to 11, are open to candidates for A.M. and Ph.D. in certain combinations as detailed in Courses 19, 20, 21, 22, and 23.

Courses 12 to 23 are intended as suggestions for lines of advanced study and investigation open to candidates for higher degrees. Courses 12, 13, 14, and 15 may be taken as major or minor subjects for A.M. or Ph.D. Courses 16, 17, 18, 19, 20, 21, and 22 are minors for A.M. Course 23 counts as a major and one minor for A.M.

With the exception of Courses 4, 5, and 7a, the mining courses are progressive, and must be taken in the order required of regular students. Pre-requisites for Course 1 are the entrance requirements in Mathematics, Chemistry, and Physics. In addition, the pre-requisite or parallel courses for Course 3 are: Mineralogy 12, and Geology 2 and 3; for Course 6, Civil Engineering 12 and 17; for Course 7, Civil Engineering 5, Mechanics 1 and 21, and Mechanical Engineering 11; for Course 8, Mechanical Engineering 1 and 2; for Courses 9 and 11, Civil Engineering 15. For Courses 4 and 5 the pre-requisite and parallel courses are Physics 1, Mineralogy 12 or 13, and Mechanics 21. All the undergraduate courses are pre-requisite to Courses 12, 13, 14, 15, 16, 17, and 18.

## Courses

1—Excavation and tunnelling. Excavation of earth and rock; mechanical excavators, explosives. Drilling and blasting. Driving and support of railroad and mine tunnels. 3 hours, first half-year. Professor PEELE

<sup>1</sup> Absent on leave.

2—Boring and shaft-sinking. Earth augers. Deep boring in rock. Drop-tool systems with rods or rope. Diamond drilling. Methods of sinking and lining shafts in rock and soft ground. 3 hours for 3 months, second half-year. Professor PEELE

3—Prospecting, exploration, development, and methods of working. 3 hours, second half-year. Professor MUNROE

4—Ore dressing, gold milling, and the mechanical preparation of coal. 3 hours for 5 months. Professor MUNROE

5—Ore-dressing laboratory. Mechanical testing of ores and coal by laboratory methods. Working tests with simple dressing apparatus. Adjustment and operation of concentrating machines. Afternoon work for three weeks, second half-year. Professor MUNROE, Mr. McCLELLAND, and Mr. STEWART

6—Mine engineering. Surface handling and transportation; transshipment and storing of minerals. Drainage. Water supply. Ventilation. Accidents. 2 hours, second half-year. Professor MUNROE

7—Mine plant. Description and critical discussion of the machinery and appliances employed in the equipment of mines: comprising the subjects of hoisting, drainage, ventilation, and compressed air plant, machine drills, coal cutters, and underground haulage. 3 hours. Professor PEELE

7a—Mine constructions. Building materials, masonry and timber construction, retaining walls, trestles, and ore-bins. 1 hour, second half-year. Professor PEELE

8—Design of mine plant and graduating project. As a part of his graduating project each student makes working drawings of specified portions of mine plant. These drawings, together with the descriptions, specifications, and estimates comprised in the project, are made under supervision and advice. 4 afternoons first half-year and 3 afternoons second half-year. Professor PEELE, Mr. KURTZ, and Mr. McCLELLAND

9—Mine surveying. 1 hour, first half-year. Professor MUNROE

10—Administration, organization, and business management, mine accounts, and cost sheets. Examination, sampling, and valuation of mines. 1 hour, first half-year. Professor MUNROE

24—Mining law. 1 hour, first half-year. Dr. RAYMOND

#### Summer Course

11—The summer course of practical mining is held in June and July, in the vacation between the third and fourth years, and lasts six weeks Professor PEELE, Mr. KURTZ, and Mr. McCLELLAND

The course of instruction includes three weeks' detailed study of the plant and methods of working at some important mine or mines selected for the purpose; one week mine surveying; one week excur-

sion to other mines and mining regions; and one week geological work, surface and underground.

### Graduate Course

Special courses, consisting of personal instruction, reading, and experimental investigation, will be arranged for advanced students according to their individual needs and ability. These investigations will be made at mines and dressing works, either in connection with the summer school or elsewhere as assigned, with additional work, as required, in the library and in the laboratories of the department. These courses vary in difficulty and in the amount of time necessary, according as the student is a candidate for the degree of A.M. or Ph.D., and according as he pursues Mining as a major or a minor subject. The time required is governed by the rule that a course or courses should occupy about 18 hours a week (outside reading and study included) if taken as a major subject, and about 9 hours a week if taken as a minor subject. The following are suggested:

12—Methods of mining—Critical study of methods used in some mining region, or for a certain class of deposits; output per man, amount of timber and explosive required, and other details affecting cost. Study of conditions as determining choice of method. Determination of loss of mineral in mining. Accidents to men.

13—Mining plant—Critical study of rock drilling, or coal cutting, or hoisting, or haulage, or ventilating plant at some mine or mines. Determination of efficiency and conditions affecting same.

14—Deep mining—Study of problems of deep mining, vertical versus inclined shafts, hoisting and pumping from great depths, temperature and ventilation, efficiency of labor, rock pressure as affecting methods of mining and timbering.

15—Ore dressing—Critical study of some detail of the ordinary dressing methods, crushing, or screening, or classification, or jigging, or slime treatment, or dry concentration, or magnetic separation, or milling of gold or silver ores, or mechanical preparation of coal. Determination of efficiency, and of conditions essential to success.

16—Examination of a coal-washing plant, or an ore-dressing plant—4 to 6 weeks' work in the mill and in the laboratory, with conferences.

17—Examination of a mineral property, or a mine—4 to 6 weeks devoted to field and underground work in the summer school of practical mining, with conferences at convenience of professor.

18—Economic studies in mining—Study of existing conditions affecting the production and cost of some mineral or metal, as, for example, anthracite coal, copper, or gold.

19—Mining and ore dressing—Mining 3, 4, and 5. 4 hours, with laboratory work and reading as required.



20—Mining engineering—Mining 3, 6, 7, and 10. 4 hours lectures and reading as required.

21—Design of mine plant—Mining 7, 7a, and 8. 3 hours and 5 afternoons draughting-room work.

22—Design of ore-dressing works—Mining 4, 5, 7a, and 8, with 1 hour conference additional, first half-year. 3 hours and 5 afternoons laboratory and draughting-room work.

23—Mining—1, 2, 3, 4, 5, 6, 7, 7a, 8, 9, 10, 11, being all the undergraduate courses in the Department of Mining.

### Equipment

LECTURE ILLUSTRATIONS—The lectures on mining are illustrated by over 300 books, containing 85,000 blue prints from negatives made for the purpose. There are a sufficient number of these books, illustrating the different courses of lectures, so that each student has the use of one or more for reference during the lectures, and for home study. These blue prints have many advantages over the usual form of lecture illustrations by lantern slides or wall diagrams. The latter are, however, used when necessary to supplement the blue prints.

MINING LIBRARY—The University Library contains complete sets of the transactions of all mining, metallurgical, and engineering societies, and of the more important periodical publications on these subjects. There is also a large and complete collection of books on mining, and all new publications of value are added as they appear. In addition, a small departmental reference library has been created, which is accessible to students at all times.

MINING MUSEUM—The subject of mining is illustrated by collections as follows: Maps of coal and metal mines of this and other countries. Working drawings, diagrams, and photographs of mine plant, and of mining and dressing machinery. Models of mines and parts of mines and of mine plant. Mining tools: picks, shovels, hammers, drills, blasting apparatus, lamps, safety-lamps, anemometers, hand-power and machine drills. Ores and dressing products from typical works in this and other countries. Surveying instruments: geological compasses and clinometers, attraction compasses, dipping needles, hanging compasses and arcs, transits, lamp signals, rods, and apparatus for plumbing and measuring shafts.

Among the more notable exhibits are large relief models of two mines of the Cleveland Cliffs Iron Mining Co. of Michigan, a similar model of a typical gold mine in Colorado, a set of three glass models and two relief models of the Copper Queen mine in Arizona, a model of the mine workings in the Mahanoy and Shenandoah anthracite coal basins, Pennsylvania, a glass model of the Calumet and Hecla and Tamarack copper mines, a large model of a standard oil-well drilling rig, and a large model of the St. Joseph Lead Co.'s dressing works at Bonne Terre, Missouri.

A very complete collection of working drawings of mine plant, and an unusually large collection of underground photographs, taken by magnesium light, are worthy of particular notice.

**MINING LABORATORIES**—Seven large rooms in the basement and sub-basement of the Engineering Building are equipped as laboratories for the department of mining. These laboratories serve four purposes: 1. To illustrate the physical laws bearing on mineral separation. 2. To afford opportunity for quantitative working tests. 3. To train students in the adjustment and operation of concentrating machinery, and in the making of efficiency tests under working conditions. 4. To give advanced students and others all necessary facilities for original investigation. These laboratories serve to supplement the study of ore concentration and milling made by the student as a part of the regular work of the Summer School of Mining, and in particular afford him facilities for such study that cannot well be given him at the works. These laboratories are unique in many respects, and afford unequalled opportunities for study and research.

**MINES AND DRESSING WORKS**—Many coal, iron, and other mines, slate and stone quarries, and metallurgical works are easily accessible from New York in from one to four hours by rail. Among these are magnetic iron mines in New York, New Jersey, and Pennsylvania; hematite mines and stone quarries in the same states, and in Connecticut; anthracite and bituminous coal mines, and natural gas and oil wells in Pennsylvania, and zinc mines in New Jersey and Pennsylvania. New York and adjacent states produce each year about half the pig-iron and coal, and over forty per cent. of the total value of the mineral product of the whole country. There are within easy reach of New York City several important iron blast furnaces and some of the most skilfully arranged and managed steel works, iron foundries, copper smelting and refining works, lead refining works, zinc works, and electrolytic establishments in the world. New York City, moreover, is the headquarters of numerous corporations operating mines and metallurgical works in this and other countries. Within a radius of one hundred miles of New York City may be studied the best practice in mining and metallurgy under most varied conditions, and the most modern and effective mining and dressing machinery and smelting plants in the country. By going a little farther one may reach the bituminous coal fields and the natural gas, oil, and salt regions in one direction, and the pyrite deposits, and granite and marble quarries of Vermont in the other; while the excursions of the summer class in mining extend as far as the iron, copper, zinc, lead, silver, and gold regions of Michigan, Missouri, Montana, Colorado, and Utah.

The metropolitan situation of the school renders it possible to present, also, as parts of the regular courses in mining, special lectures by prominent engineers. The list of such lecturers for 1903-04 and more detailed information as to the courses offered and as to the facilities for instruction will be found in the *Announcement of the School of Mines* for this year.

### Music

EDWARD ALEXANDER MACDOWELL, Mus. Doc.....	Professor
LEONARD BEECHER MCWHOOD, A.B.....	Tutor
GUSTAV HINRICHS.....	Conductor
CHARLES HUBERT FARNSWORTH.....	Adjunct Professor in Teachers College

The courses in this department fall into four divisions: the technique of musical composition, general musical culture, musical dictation, and practical training in orchestral and choral music. The aim of the technical courses is to teach music theoretically and scientifically with a view to training musicians competent to teach and to compose. In the general courses, music is treated historically and æsthetically as an element of liberal culture; the technical side of the art is explained, and the lectures are supplemented by illustrations and analysis.

Courses 2, 5, and 11 are not given in 1903-04.

All courses are open to undergraduate students, to university students, to special students of music, and to auditors; and all, except Course 8, to women on the same terms as to men.

Course 2 is open only to students that have taken Course 1, and to others equally qualified. Similarly, Courses 4 and 7 presuppose 3, 10 presupposes 3 and 6, 11 presupposes 7, and 5 presupposes 4 and 11.

Courses 8 and 9 count toward a degree only when taken in connection with some other course in Music.

For the courses in Music offered at Teachers College see the *Announcement of Teachers College*, and for Extension courses see the *Announcement of Extension Courses*.

### Courses

1—General musical course—The origin of music and its relation to speech and the emotions. Primitive music and instruments. The history of music from the earliest times up to the 19th century. Acoustics; form; analysis; musical instruments in use up to the present century, with practical illustrations. 1 hour. Professor MACDOWELL

[2—General musical course, advanced—This course, which is a continuation of Course 1, treats of the development of forms, the song, romanticism, instrumental development and the composers for piano-forte, the virtuoso, modern orchestration and symphonic forms, the music drama, impressionism *versus* absolute music, and color *versus* form, the relationship of music to other arts, musical criticism. 1 hour. Professor MACDOWELL]

3—Harmony—This course treats of general theory, harmony, chords and their mutual significance, altered chords, suspensions, modulation, and analysis. 2 hours. Lectures and class-work. Mr. MCWHOOD



4—Counterpoint—This course treats of counterpoint, canon, fugue, and analysis. 2 hours. Lectures and class-work. Professor MACDOWELL and Mr. McWHOOD

[5—Orchestration and symphonic form—This course treats of free composition, analysis, instrumentation, and symphonic forms. 2 hours. Lectures and class-work. Professor MACDOWELL]

6—Musical dictation—Melodic and rhythmic dictation, and the beginning of harmonic dictation. 1 hour. Mr. McWHOOD

7—Advanced harmony and practical composition—This course treats of free harmony and the practical composition of music. It may be considered as a continuation of Course 3. 1 hour. Professor MACDOWELL

8—University chorus. 2 hours. Mr. HINRICHs

9—University orchestra. 2 hours. Mr. HINRICHs

10—Musical dictation, advanced. This course treats, especially, of harmonic dictation. 1 hour. Mr. McWHOOD

[11—Free composition, advanced. This course is a continuation of Course 7. A thorough knowledge of harmony and some experience in composition are required. 1 hour. Professor MACDOWELL]

12—Analysis of musical sound. 1 hour, second half-year. Mr. McWHOOD

### Equipment

A collection of music and of books of reference is placed at the disposal of students. It includes the complete works of various composers, many orchestral and opera scores, the piano-forte classics, and vocal music, besides many theoretical, historical, and biographical works. The department has also a collection of instruments for the use of students participating in the university orchestra.

### Neurology

M. ALLEN STARR, M.D., LL.D.....	<i>Professor</i>
FREDERICK PETERSON, M.D.....	<i>Clinical Professor of Psychiatry</i>
PEARCE BAILEY, M.D.....	<i>Chief of Clinic and Instructor</i>
R. H. CUNNINGHAM, M.D.....	<i>Instructor</i>

#### *Clinical Assistants*

C. E. ATWOOD, M.D.	WALTER TIMME, M.D.
S. P. GOODHARDT, M.D.	E. L. HUNT, M.D.
SMITH ELY JELLIFFE, M.D.	ARTHUR B. WRIGHT, M.D.
B. E. KRYSTALL, M.D.	L. PIERCE CLARK, M.D.
L. M. GIBSON, M.D.	H. R. HUMPHRIES, M.D.
L. S. MANSON, M.D.	THOS. L. PROUT, M.D.
STUART HART, M.D.	G. W. TODD, M.D.

<sup>1</sup> A chorus for women, in session one hour weekly, is conducted by Mr. HINRICHs, at Barnard College.



### Courses

1—Didactic lectures with lantern demonstration on nervous diseases. 1 hour, four months for two years. Professor STARR

Brain, 1903. Spinal Cord and Nerves, 1904.

2—Clinical lectures. 1 hour, F., 2 P.M. Professor STARR

3—Section teaching—Practical neurology. Ten lessons. Dr. BAILEY and Dr. CUNNINGHAM

4—Clinics on insanity. 4 hours in March. Professor PETERSON

### Normal Histology

(See page 164)

### Obstetrics

EDWIN B. CRAGIN, M.D.....*Professor*

JAMES D. VOORHEES, M.D.....*Lecturer*

RALPH W. LOBENSTINE, M.D.....*Instructor*

### Courses

Course 1 is required, in the third year, of candidates for the degree of M.D.; Course 2, in the second year; Course 3, in the fourth year.

1—Theory and practice of obstetrics—Lectures. 3 hours, two didactic and one clinical, during the first half-year. Professor CRAGIN

2—Recitations and demonstrations. 1 hour for each student. One sixth of the class receives instruction daily, by recitations and demonstrations. Dr. VOORHEES

3—Practical instruction at the Sloane Maternity Hospital. The students are divided, at the beginning of the academic year, into sections of six, each section remaining on duty at the Hospital for two weeks. Dr. LOBENSTINE

### The Sloane Maternity Hospital

The Sloane Maternity Hospital is situated upon the grounds of the College of Physicians and Surgeons, and the service is under the exclusive direction of the Professor of Obstetrics in the College, one of the Instructors in Obstetrics being the resident physician.

The wards of the Hospital furnish one hundred and sixteen beds, and there are ample accommodations for the house staff, students, and nurses. The operating-room is equipped with all modern surgical and obstetrical conveniences, and has seating accommodations for fifty-one students. The number of deliveries averages over fourteen hundred a year. These, with the obstetric operations and the subsequent treatment of women and infants, afford invaluable practical experience, such as is offered at no other medical school in this country.

## Oriental Languages

## Chinese

FRIEDRICH HIRTH, Ph.D.....*Dean Lung Professor*  
 ROBERT J. H. KLIENE.....*Assistant*

Courses 1, 9, and 10 are open to Seniors in Columbia College. All the courses are open to auditors.

Pending the completion of the collection of Chinese books now in the course of formation in connection with the Columbia Library, Courses 2, 3, 4, and 5, and the Seminars 6, 7, and 8 will be held in Professor HIRTH's private library, near Columbia University, 501 W. 113th Street. All other courses will be given in the University buildings.

1—Elementary course—Study of Chinese characters with explanations regarding the peculiarities of Chinese life and language. Text-book: T. L. Bullock, *Progressive Exercises in the Chinese Written Language*. 3 hours. Professor HIRTH and Mr. KLIENE

2—Analysis and translation of easy documents written in the Chinese modern business style, chiefly despatches and rules and regulations from Hirth's *Text-book of Documentary Chinese* and special documents. 2 hours. Professor HIRTH

This course is intended for those who have taken Course 1 and may wish to do business in China. It is desirable that students combine it with Courses 4 and 5.

3—Analysis and translation of selected easy texts from the national histories and the Confucian classics. 2 hours. Professor HIRTH

4—Helps and keys in Chinese literature. 1 hour. Professor HIRTH

5—Selected works of Chinese literature. 1 hour. Professor HIRTH

## Seminars

The Seminars are for research work and special study in three directions: (a) modern government matters; (b) historical literature; and (c) literature on art, industry, and culture. Any two of them will be offered in each academic year, according to the needs of the students presenting themselves. It is expected that, in order to participate in any of these Seminars, students have either gone through the preceding courses (1 to 5), or otherwise acquired the requisite knowledge of the book language.

6—Seminar for the study of Chinese government matters, based on original state papers taken from the *Peking Gazette*, Chinese provincial newspapers and other publications, memorials, imperial edicts, etc. For advanced students. 1 hour. Professor HIRTH

7—Seminar for historical studies in Chinese literature. 1 hour. Professor HIRTH

[a. For research work in the ancient and mediæval history of Central Asia in connection with the discoveries made by modern explorers in Eastern Turkestan. 1 hour.

*Not given in 1903-04]*

b. For research work in the native literature on the history of political economy in China. 3 hours

[8—Seminar for the study of Chinese art, industry, and general culture. 1 hour. Professor HIRTH.

*Not given in 1903-04]*

9—Colloquial studies in the Mandarin dialect. Text-books: L. C. Hopkins, *The Guide to Kuan-hua* (Shanghai: Kelly & Walsh), and the Chinese edition of *Kuan-hua-chi-nan*. 3 hours. Professor HIRTH and Mr. KLIENE

10—History of the Chinese Empire for students who need not study the Chinese language. Continued from previous year. 1 hour. Professor HIRTH

[11—Ethnography of Asia as represented in Chinese literature, for students who need not study the Chinese language. 2 hours. Professor HIRTH.

*Not given in 1903-04]*

### Indo-Iranian Languages

A. V. WILLIAMS JACKSON, L.H.D., Ph.D.....*Professor*  
ABRAHAM YOHANNAN, Ph.D.....*Lecturer*

The courses of instruction in the department of Indo-Iranian Languages are intended to be introductory to the study of comparative philology and of the history of religion, as well as to the study of the history, antiquities, and literature of India and Persia and also of Armenia. The course arranged for beginners in Sanskrit, Indo-Iranian 1, may be taken with advantage in connection with any of the Latin, Greek, or other linguistic courses.

Courses 1, 2, 3, and 11 are open to all university students (including seniors in Columbia College as well as candidates for higher degrees and special students). In the case of Course 1, candidates for higher degrees will be required to supplement the study by some additional work that will be assigned, or by taking some kindred course in the department. Course 1 may also be taken as an elective by juniors in the College. Courses 4, 5, 6, 7, 10, and 12 are open to advanced students only. Courses 8 and 9 are open to students pursuing one other course in the department. Course 13 is open to seniors in the College and to university students.

Courses 1, 3, 11, and either 2 or 4 are intended to be given each year. Courses 5, 6, 7, 8, and 12 form a supplementary series. Two of this series will be given each year according to the requirements of the students in attendance.

Course 9, on some special Iranian subject, Course 10, on Zoroaster and Buddha and their teachings, and Course 13, on the history of India and Persia, will be offered every second or third year.

Course 11 is open to Auditors, and to women on the same terms as to men.

### Courses

1—Sanskrit, elementary course. Whitney's *Grammar*, Perry's *Primer*, Lanman's *Reader*. 3 hours. Professor JACKSON

2—Avestan, elementary course—Grammar and reading of texts. Jackson's *Avesta Series: Part I, Grammar, Part II, Texts*. 2 hours. Professor JACKSON

3—Sanskrit, advanced course. First half-year: The Sanskrit drama, *Priyadarśikā* of Harsha; selections from Manu, with the native Commentary. Second half-year: Introduction to the study of the Veda. 2 hours. Professor JACKSON

[4—Avestan, advanced course—Interpretation of texts, antiquities, and literature. Geldner's *Text of the Avesta*. 2 hours. Professor JACKSON

*Not given in 1903-04. To be given in 1904-05]*

[5—Pāli, elementary course. E. Muller's *Simplified Pāli Grammar*, Elwell's *Nine Jātakas*. 1 hour. Professor JACKSON

*Not given in 1903-04. To be given in 1904-05]*

6—Old Persian cuneiform inscriptions. Spiegel's *Die altpersischen Keilinschriften*, Bartholomae's *Handbuch der altiranischen Dialekte*, Weissbach and Bang's *Die altpersischen Keilinschriften*. 1 hour, first half-year. Professor JACKSON

7—Pahlavi, introductory course. C. de Harlez's *Manuel du Pehlvi*, and Salemann's *Mittelpersisch*. 1 hour, second half-year. Professor JACKSON

8—Sanskrit literature—Lectures on some branch of the literature; rapid reading of assigned texts. 1 hour. Professor JACKSON

9—Zoroastrian Gāthās—Reading of texts with the Pahlavi and the Sanskrit version. 1 hour. Professor JACKSON

*Given in 1903-04, and in alternate years thereafter.*

11—Modern Persian, introductory course. First half-year: Grammar and reading. St. Clair-Tisdall's *Modern Persian Conversation-Grammar*. Second half-year: Interpretation of Sa'di's *Gulistan*. 2 hours. Dr. YOHANNAN

12—Modern Persian, second-year course. Selections from Firdausi, from Omar Khayyām, and from Hāfiz. 2 hours. Dr. YOHANNAN

13—History of India and of Persia. 2 hours, first half-year. Professor JACKSON

This course is identical with History 57.



**Course in Armenian**

**1**—Principles of the grammar, with selected readings. 2 hours.  
Dr. YOHANNAN

**Seminar**

Indo-Iranian seminar. 1 hour. Professor JACKSON

**Lectures**

A course of afternoon lectures on the literature, antiquities, and history of ancient India and Persia, open to all students of the University and to auditors, is given during the winter months. Public announcement of the subjects will be made at the time when these lectures are to be delivered.

**Course in the Science of Language**

[Introduction to the science of language. 2 hours. Professor JACKSON.

This course is open to seniors in the College, and to all university students, men and women alike, and to auditors. It may not be counted toward the degree of Master of Arts or Doctor of Philosophy except on the basis of special work done in connection with it. It is planned to add in this course a second year of study in which the student shall devote himself to research in the philology of one particular family of languages. In this connection Professor Gottheil and Professor Jackson propose to offer advanced courses in Semitic and Indo-Iranian linguistics.

*Not given in 1903-04. To be given in 1904-05]*

**Semitic Languages**

RICHARD J. H. GOTTHEIL, Ph.D.....	<i>Professor</i>
JOHN DYNELEY PRINCE, Ph.D.....	<i>Professor</i>
ABRAHAM YOHANNAN, Ph.D.....	<i>Lecturer</i>
WILLIAM POPPER, Ph.D.....	<i>Lecturer</i>

Courses 1, 2, 3, 4, 5, 10, 12, 13, 15, 16, 18, 19, and 20, and the seminar, are open to seniors in Columbia College and to University students; Courses 6, 7, 8, 9, 11, 14, and 17, to advanced students only. All the courses in Semitic Languages except the seminar are open to auditors. Courses 1, 2, 4, 10, 12, 13, 15, and 16 are open also to juniors in Columbia College.

**Courses in Hebrew**

The course in Hebrew extends over three years. The first year is devoted to the study of the elements; the second, to the study of the syntax and the acquiring of ease in translating from Hebrew into English and from English into Hebrew; the third, to a critical study of one or more books of the Bible.

The attention of students in the College is directed to the fact that it is desirable that those who intend entering a theological seminary after graduation shall have had at least two years' previous training in Hebrew. Opportunity for this training is given the students of Columbia College, Hebrew being an elective in both the junior and senior classes.

1—Biblical Hebrew, elementary course—Davidson's *Introductory Hebrew Grammar*. 2 hours. Dr. POPPER

2—Biblical Hebrew, second course—(a) Critical study of Daniel, with especial reference to the Biblical Aramaic dialect. 2 hours. Professor PRINCE. (b) Hosea. 2 hours. Professor GOTTHEIL

3 (a)—Biblical Hebrew, third (lecture) course—Semitic archæology and its bearings upon the study of the Bible. 2 hours, first half-year. Professor GOTTHEIL. (b) The history of the literature of the Old Testament: Lectures on the origin and development of Hebrew literature. 1 hour throughout the year. Professor PRINCE

4—Selected readings from the Mishnah—Text-books: Strack's *Yoma* (Berlin, 1888) and *Schabbath* (Leipzig, 1890). 2 hours. Dr. POPPER

5—Selected readings from the Talmud, Treatise Berachoth. 2 hours. Professor GOTTHEIL

Other courses in Hebrew are given at the Union Theological Seminary.

6—Lectures on post-Biblical Hebrew literature. 2 hours, first half-year. Professor GOTTHEIL

For Courses 4 and 5 a good knowledge of Biblical Hebrew is required.

For Extension courses in Biblical Literature, see the special announcement of such work issued by Teachers College.

### Courses in Semitic Epigraphy

These courses are intended to cover the whole field of Semitic Epigraphy during a period of three years. For Course 7 a previous knowledge of Hebrew is required; for Course 8, of Aramæan; and for Course 9, of Arabic.

[7—Interpretation of the Phœnician inscriptions, with an introduction to Semitic palæography and the history of the alphabet. *Corpus Inscriptionum Semiticarum*, vol. i; Lidzbarski, *Handbuch der nord-semitischen Epigraphik*. 1 hour. Professor GOTTHEIL

*Not given in 1903-04. To be given in 1905-06]*

8—Interpretation of the Aramæan inscriptions of Sinjirli (*Mittheilungen aus den Orientalischen Sammlungen*, Heft xi, Berlin, 1893) and of the *Corpus Inscriptionum Semiticarum*, vol. ii. 1 hour. Professor GOTTHEIL

[9—Interpretation of the Sabæan and Himyaritic inscriptions contained in the *Corpus Inscriptionum Semiticarum*, vol. iv. Professor GOTTHEIL

*Not given in 1903-04. To be given in 1904-05]*

### Courses in Assyrian

10—Elementary course—Study of the Syllabary, with readings from Delitzsch's *Assyrische Lesestücke* (4th ed., 1901). 2 hours. Professor PRINCE

Students taking this course will have to provide themselves with Delitzsch's *Assyrian Grammar*.

11—Advanced course—Study of the texts in II. and IV. Rawlinson, *Sumerian Studies*. 2 hours. Professor PRINCE

Only such students may take this course who have previously taken the first course or have done an equivalent amount of work.

### Courses in Arabic

12—Elementary course—Study of Socin's *Arabic Grammar*, with exercises in translating Arabic into English and English into Arabic 2 hours. Dr. POPPER

13—Second course—Study of Brunnow's *Chrestomathie aus arabischen Prosaschriftstellern* (*Porta Linguarum Orientalium*, pars xvi; Berlin, 1895). 2 hours. Dr. POPPER

14—Advanced course—Selections from the annals of Tabari (Gottheil and Jastrow, *Semitic Studies Series*, No. 1, Leiden, 1902). 2 hours. Professor GOTTHEIL

### Courses in Syriac

15—First course. First half-year: Brockelmann's *Syrische Grammatik*, in connection with selected readings from the Peshitta. Second half-year: Interpretations of selected portions of the *Acta Martyrum* (ed. Bedjan). 2 hours. Dr. POPPER

16—Second course. First half-year: Interpretation of Lagarde's *Analecta Syriacā*. Second half-year: Interpretation of the Syriac Grammar *Kethābhā dhesemhē* of Bar Hebraeus. 2 hours. Professor GOTTHEIL and Dr. YOHANNAN

In case there should be a demand for instruction in Modern Syriac, Dr. Yohannan will make arrangements for a course.

### [Course in Ethiopic

17—Principles of the grammar, and reading of the extracts in Prætorius' *Äthiopische Grammatik* (*Porta Linguarum Orientalium*, pars vii; Karlsruhe, 1886). 1 hour. Professor GOTTHEIL

## Courses in Oriental History

[18—The ancient history of Western Asia from the earliest times until the period of Alexander the Great. 2 hours. Professor PRINCE

This course will embrace an historical survey of Early Babylonia, the Assyrian Empire, the later Babylonian Empire, and the Persian Rule in Babylonia, as well as a briefer discussion of the Egyptian, Phœnician, and Hittite civilizations. Especial attention will be given to the points of contact between the Assyro-Babylonian historical records and the Old Testament, and to the most important ethnological problems which a study of the ancient peoples of Western Asia presents.

This course is identical with History 56.

*Not given in 1903-04]*

19—The rise of Arabian civilization and the spread of Mohammedanism. Professor GOTTHEIL

This course will treat of the geographical position of Arabia, its early history as recorded upon the monuments, the Sabæans and Himyarites, pre-Mohammedan civilization, the life of Mohammed, the rise of Mohammedanism as a religious system and as a political power, Arabic historiography, the early Caliphs, Ali and his followers, and the Abbaside Caliphs.

20—The nearer Orient. Dr. POPPER

This course will treat of the geography, ethnography, commerce, administration, and economic conditions of the nearer Orient.

## Semitic Seminar

21—The seminar will take up the study of current questions in Semitic philology and history with especial reference to modern methods of research.

Tu. evening at 8.15.

Attendance at the seminar meetings will be obligatory upon candidates for the degrees of Master of Arts and Doctor of Philosophy whose major subject is in Semitic Languages. The meetings are open also to advanced students one of whose minor subjects is in the department of Semitic Languages.

## Courses in Egyptian

22—Elementary course in Coptic, in connection with a study of Steindorff's *Koptische Grammatik* (Berlin, 1894). 1 hour a week. Professor PRINCE

23—Egyptian hieroglyphs and advanced Coptic—Text-book: Ermann's *Ägyptische Grammatik*. 1 hour. Professor PRINCE

## Course in Turkish

22—Principles of the grammar in connection with the study of A. Muller's *Türkische Grammatik* (Porta Linguarum Orientalium, pars xi). Second half-year: Exercises in Turkish conversation and in the reading of Turkish newspapers. 2 hours. Dr. YOHANNAN



### Courses in Semitic Languages at the Union Theological Seminary

A detailed announcement of these courses is given in the circular issued by the division of Oriental Languages. Such courses may be counted as part of the work required for the degrees of Master of Arts and Doctor of Philosophy.

### Equipment

The Columbia University Library (about 330,000 volumes) contains most of the important periodicals which deal with Oriental research, and has quite a rich collection of the publications of the learned societies of Europe—*e. g.*, of the Academies of Berlin, Vienna, Leipsic. St. Petersburg, Brussels, Paris, and Rome (Lincei).

The books relating to East Indian and Iranian subjects in the University Library comprise already a good collection of the most important text-editions and works of reference, and additions are constantly being made. Most of the best works dealing with Semitic philology will be found in the Library; care has been taken, especially in Assyriology, to buy all the more important publications. In the Avery Architectural Library most of the monumental works relating to Eastern art and archæology will be found. Through the generosity of the trustees of Temple Emanuel, the Library now possesses the most complete collection of works in Rabbinical Hebrew to be found in this country. There is also a small collection of Hebrew, Arabic, and Persian MSS., designed for the use of advanced students. The resources of the University Library are supplemented in the most valuable way by the collections of all branches of Orientalia in the New York Public Library. A collection of old Babylonian tablets has been added to the department. These, together with the casts of tablets in the Metropolitan Museum of Art, furnish material for those who wish to devote themselves especially to the study of Babylonian and Assyrian.

The library of the Union Theological Seminary, which is accessible to advanced students at Columbia University, contains all the current theological periodicals.

### Pathology

*Including Pathology, Normal Histology, Bacteriology and Hygiene, Clinical Pathology, and Photomicrography*

T. MITCHELL PRUDDEN, M.D., LL.D.....	<i>Professor of Pathology and Director of the Associated Laboratories</i>
EUGENE HODENPYL, M.D.....	<i>Instructor in Pathology</i>
JOHN H. LARKIN, M.D.....	<i>Instructor in Pathology and Curator of the Museum</i>
NORMAN E. DITMAN, M.D.....	<i>Instructor in Pathology</i>
A. S. CHITTENDEN, M.D.....	<i>Assistant in Pathology</i>
KARL M. VOGEL, M.D.....	<i>Assistant in Pathology</i>

GEORGE P. BIGGS, M.D.....	<i>Demonstrator in Pathological Anatomy</i>
GEORGE A. TUTTLE, M.D.....	<i>Demonstrator in Pathological Anatomy</i>
EDMUND L. DOW, M.D.....	<i>Demonstrator in Pathological Anatomy</i>
PHILIP HANSON HISS, Jr., M.D.....	<i>Adjunct Professor of Bacteriology</i>
AUGUSTUS B. WADSWORTH, M.D.....	<i>Assistant in Bacteriology and Hygiene, and Alumni Association Fellow in Pathology</i>
CHARLES NORRIS, M.D....	<i>Assistant in Bacteriology and Hygiene, and Alonzo Clark Scholar</i>
FRANCIS C. WOOD, M.D.....	<i>Instructor in Clinical Pathology</i>
D. STUART DODGE JESSUP, M.D.....	<i>Assistant in Clinical Pathology</i>
HENRY S. PATTERSON, M.D.....	<i>Assistant in Clinical Pathology</i>
FREDERICK RANDOLPH BAILEY, M.D...	<i>Instructor in Normal Histology</i>
A. M. MILLER.....	<i>Instructor in Normal Histology</i>
OLIVER S. STRONG, A.M., Ph.D...	<i>Assistant in the Normal Histology of the Nervous System</i>
CHARLES EVERETT BANKER, M.D.....	<i>Assistant in Normal Histology</i>
KARL A. CONNELL, M.D.....	<i>Assistant in Normal Histology</i>
ARTHUR S. CORWIN, M.D.....	<i>Assistant in Normal Histology</i>
CHARLES HENDEE SMITH, M.D.....	<i>Assistant in Normal Histology</i>
EDWARD LEAMING, M.D.....	<i>Instructor in Photomicrography</i>

For the convenience of administration, and for the better association of allied themes, the laboratories of Pathology, Normal Histology, Bacteriology and Hygiene, Clinical Pathology, and Photography are grouped together in the Department of Pathology under the direction of the Professor of Pathology.

### Courses

*Further details respecting the following courses are to be found in the special Bulletin of Information of the College of Physicians and Surgeons.*

Course 1 in Normal Histology is required, in the first year, of candidates for the degree of M.D. This course may be elected by seniors in Columbia College.

Courses 1 in Pathology and 1 in Bacteriology and Hygiene are required, in the second year, of candidates for the degree of M.D.

Courses 2 and 3 in Pathology are required, in the third year, of candidates for the degree of M.D.

Course 1 in Clinical Pathology is required, in the third year, of candidates for the degree of M.D.

Course 2 in Bacteriology and Hygiene may be offered as a minor for one year by candidates for the degree of A.M. or Ph.D. Course 3 in Bacteriology and Hygiene may be offered as a major for one year by candidates for the degree of A.M. or Ph.D.

Courses 4 in Pathology and 2 in Clinical Pathology cannot be counted for a degree, and are only open to qualified graduate students by special arrangement with the head of the department.

### Courses in Pathology

1—Autopsy technique, and pathological anatomy, at the Presbyterian, New York, St. Luke's, or Bellevue Hospitals, once a week for eight weeks. Drs. HODENPYL, TUTTLE, BIGGS, and WOOD

2—Practical instruction in general pathology, pathological anatomy and histology, and in the bacteriology of the infectious diseases. 8 hours a week for one half of the academic year. Professor PRUDDEN, and Drs. HODENPYL, LARKIN, BAILEY, DITMAN, and CHITTENDEN

3—Demonstrations in pathological anatomy. 1 hour a week throughout the academic year. Drs. HODENPYL, LARKIN, DITMAN, CHITTENDEN, and VOGEL

4—Pathological anatomy and histology, experimental pathology, bacteriology as applied to medicine, and clinical pathology. Professors PRUDDEN and HISS, and Drs. HODENPYL, WOOD, LARKIN, and DITMAN

### Courses in Normal Histology

1—Practical instruction in general normal histology. 10 hours a week for one half of the academic year. Drs. BAILEY, STRONG, MILLER, BANKER, CONNELL, CORWIN, and SMITH

### Courses in Bacteriology and Hygiene

1—Practical instruction in bacteriology and hygiene. 6 hours a week for one quarter of the academic year. Drs. HISS, WADSWORTH, and NORRIS

2—Special laboratory course in advanced bacteriology and bacteriological technique. This course is given but once during the year, and requires attendance at the laboratory for the entire afternoon in January, February, and March. Drs. HISS, WADSWORTH, and NORRIS

3—Laboratory course—As under Course 2, with additional study and determination of known species of bacteria; special study of the chemical products formed in the growth of bacteria; practical work in photomicrography and the pursuit of some selected theme for original investigation. Professors PRUDDEN and HISS, and Drs. WADSWORTH, NORRIS, and LEAMING

### Courses in Clinical Pathology

1—Practical instruction in clinical pathology 6 hours a week for one quarter of the academic year. Drs. WOOD, JESSUP, PATTERSON, and VOGEL

2—Special laboratory course in clinical pathology. Dr. WOOD

### Photography and Photomicrography

1—Practical instruction is given to a limited number of men in the photographic laboratories of the College, in the technique of photography and photomicrography. Dr. LEAMING

### Research

Research in pathology and bacteriology may be pursued in the laboratories of this department by a limited number of graduate

students or practitioners of medicine or other advanced workers.  
Professor PRUDDEN

### Fellowships

For the fellowships open to persons wishing to do special work under the Professor of Pathology, see page 46.

### Museum

The Museum of Pathology is made use of in the work of this department, both for the instruction of medical students and as a place of deposit for specimens showing new and rare forms of lesions.

### Equipment

The Department of Pathology occupies the two upper floors of the north wing of the college building. The large class-room on the upper floor is used, as formerly, for the classes in normal histology and in pathology. The fourth floor is devoted to the pathological museum and to a large preparation laboratory, a workshop, cold storage, and the like. The remaining space is devoted to a general laboratory and to private rooms for instructors and advanced workers in pathology, to undergraduate and to research work in bacteriology and hygiene and clinical pathology, and to a departmental library.

The entire space is amply lighted, fully furnished, and equipped with such new apparatus as the rapidly growing sciences of pathology, bacteriology, and closely allied themes require.

## Pharmacology and Therapeutics

CHRISTIAN A. HERTER, M.D.....	Professor
SMITH ELY JELLIFFE, M.D., Ph.D.....	Instructor
WALTER A. BASTEDO, M.D.....	Tutor
FRANK S. MEARA, M.D., Ph.D.....	Assistant

### Courses

*For full particulars see the Announcement of the School of Medicine.*

Instruction in this department is both didactic and practical.

1—The didactic course occupies two hours a week and is required, in the second and third years, of candidates for the degree of M.D.  
Dr. JELLIFFE

2—The practical instruction is carried on in the newly established department of Pharmacy, where students of the second year work four hours a week in sections. The pharmacy laboratory has been thoroughly equipped for practical prescription work and in the course each student is required to prepare a large number of standard galenical preparations. Drs. JELLIFFE and BASTEDO

3—Students of the second year are required to attend regular recitations one hour a week throughout the entire year. Drs. BASTEDO and MEARA

<sup>1</sup> Absent on leave.



### Philosophy and Psychology

JAMES McKEEN CATTELL, Ph.D.....	<i>Professor</i>
MOSES ALLEN STARR, M.D., LL.D.....	<i>Professor</i>
HERBERT GARDINER LORD, A.M.....	<i>Professor</i>
FREDERICK JAMES EUGENE WOODBRIDGE, A.M., LL.D.....	<i>Professor</i>
FELIX ADLER, Ph.D.....	<i>Professor</i>
CHARLES AUGUSTUS STRONG, A.B.....	<i>Professor</i>
ROBERT SESSIONS WOODWORTH, Ph.D.....	<i>Instructor</i>
ADAM LEROY JONES, Ph.D.....	<i>Tutor</i>
WILMON HENRY SHELDON, Ph.D.....	<i>Tutor</i>
WILLIAM PEPPERRELL MONTAGUE, Ph.D.....	<i>Tutor</i>
PERCY HUGHES, A.M.....	<i>Assistant</i>
HENRY ALFORD RUGER, A.B.....	<i>Assistant</i>
FRANK G. BRUNER, A.B.....	<i>Assistant</i>
EDWARD LEE THORNDIKE, Ph.D., <i>Adjunct Professor in Teachers College</i>	
JOHN ANGUS MACVANNEL, Ph.D.....	<i>Instructor in Teachers College</i>
NAOMI NORSWORTHY, B.S.....	<i>Tutor in Teachers College</i>

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NICHOLAS MURRAY BUTLER, Ph.D., LL.D.... *President and Professor*

The courses primarily for students of the colleges are intended to offer the training in philosophy and psychology which is believed to be essential for a liberal education, to give instruction preliminary to certain of the professions, and to prepare students for advanced work.

Psychology A, given in four sections at Columbia College, in three sections at Barnard College, and in three sections at Teachers College, is required in the sophomore or junior year. It should be elected in the sophomore year by students wishing to follow other courses in philosophy or psychology.

Psychology 10 (given both at Columbia and Barnard Colleges), 8, and 9 are primarily for sophomores and juniors.

Philosophy 2 and 9 (given both at Columbia and Barnard Colleges) and Psychology 1 and 18 are for juniors and seniors.

Philosophy 1 (given both at Columbia and Barnard Colleges) 7, and 8, and Psychology 2, 3, and 16, are primarily for seniors, and are open to students of Columbia, Barnard, and Teachers Colleges. Juniors may be admitted in special cases; graduate students, if they have not had training in philosophy and psychology, will need to enter these courses. They may count towards the higher degrees when special work is done in connection with them.

Certain courses in Philosophy and Psychology are offered each year in the Summer Session. For details see the *Announcement* of the Session, issued in February of each year.

These courses count one point towards the degree of A.B. for each hour of work through the year, or one half-point for each hour of work

through one half-year, except that two hours of laboratory work in psychology count as one point.

The graduate courses are intended to cover the whole field of philosophy and psychology and to give opportunity for research in any direction.

Philosophy 3, 4, 6, 7, 10, 11, 12, 13, 14, 15, 16, 18, 20, 21, 26, and 27, and Psychology 5, 6, 7, 11, 14, 17, and 19 are for graduate students in the first or second year of residence. To certain of them specially qualified seniors are admitted.

The seminars and research courses (including Psychology 4) are for graduate students who are able to do independent work, and can only be taken with the consent of the instructor.

Psychology 1 and 8 (being open to juniors) and 7 (being given at the College of Physicians and Surgeons) are not open to Barnard students, but all the courses in philosophy and psychology except Psychology 7 are open to women. All the courses are open to auditors, who, in accordance with the regulations, must secure the written consent of the instructor.

*For special information as to the scope of each course, the courses or their equivalents that must have preceded it or must accompany it, as to what credit toward the fulfilment of the requirements for major or minor subjects will be given on the completion of the course, consult the Announcement of the Division of Philosophy, Psychology, and Anthropology for 1904-05.*

#### Courses in Philosophy

1—The history of philosophy—Lectures, essays, and discussions. This course serves as a general introduction to the study of philosophy, and is pre-requisite to Courses 3, 4, 6, 11, 13, 14, and 15. 3 hours. Professor WOODBRIDGE and Dr. SHELDON, assisted by Mr. HUGHES

2—Ethics: general course—Lectures, essays, and discussions. 3 hours, second half-year. Professor LORD

3—The philosophy of Kant and his successors—Lectures, essays, and private reading. 2 hours. Dr. SHELDON

4—British philosophy from Locke to Herbert Spencer—Lectures, essays, and private reading. 2 hours. Professor WOODBRIDGE

6—Logic and metaphysics—Lectures, discussions, and essays. 2 hours. Professor WOODBRIDGE

7—Ethics: advanced course—Lectures, essays, and discussions. 3 hours. Dr. MONTAGUE

8—Principles and problems of æsthetics—Lectures, essays, and discussions. 2 or 3 hours. Dr. JONES

9—Logic and scientific method. 3 hours, second half-year. Dr. MONTAGUE

10—Journal club—Reports and discussions on contemporary literature. 1 hour. Dr. JONES

11—Philosophic value of scientific concepts—Lectures and discussions. 2 hours. Dr. SHELDON

12—(Same as Education 102)—Practicum—Philosophy of education—Lectures, reports, and discussions. 2 hours. President BUTLER and Dr. MACVANNEL

13—Seminar in comparative logic. 2 hours. Dr. SHELDON

14—(Same as Education 51)—Educational problems—Lectures and discussions. 1 hour. Professor RUSSELL, in co-operation with President BUTLER, and special lecturers

15—The philosophy of Leibniz. 2 hours. Dr. MONTAGUE

16—Practicum in æsthetics—Advanced study of the principal problems—Lectures, readings, essays, and discussions. 2 hours. Dr. JONES

18—Political and social ethics. 2 hours, second half-year. Professor ADLER

20—Post-Kantian idealism in Germany. 2 hours. Dr. SHELDON

21—The philosophy of realism. 2 hours. Dr. MONTAGUE

22—Seminar in Aristotle. Professor WOODBRIDGE

23—Seminar in political and social ethics. Professor ADLER

24—Seminar (same as Education 103). Dr. MACVANNEL

25—Seminar in Schopenhauer. Dr. MONTAGUE

26—The fundamental problems of philosophy. 2 hours. Officers of the department and invited lecturers

27—The philosophy of history. 2 hours. Mr. HUGHES

*Philosophy of Religion (at the Union Theological Seminary)*

A—Philosophy of religion; the philosophical foundation. 2 hours, first half-year. Professor KNOX

B—Theism. 2 hours, second half-year. Professor KNOX

C—Survey of the ethnic faiths. 2 hours, first half-year. Professor KNOX

F—Introduction to the study of the philosophy of religion. 2 hours. Professor KNOX

*Ethics (at the Union Theological Seminary)*

A and B—Christian ethics. 2 hours. Professor THOMAS C. HALL

C—Special introduction to ethics. 2 hours, first half-year. Professor THOMAS C. HALL

D—Types of ethical systems. 2 hours, second half-year. Professor THOMAS C. HALL

E—Christian social thinking. 1 hour. Professor THOMAS C. HALL

H—Study of modern ethics. 2 hours. Professor THOMAS C. HALL

## Courses in Psychology

**A**—Elements of psychology—Discussions, practical exercises, and recitations. 3 hours, first half-year, given in 4 sections at Columbia College and in 3 sections at Barnard College. Professor LORD, Dr. WOODWORTH, and Dr. JONES. Given at Teachers College in 3 sections. Professor THORNDIKE and Miss NORSWORTHY

**10**—Analytic psychology, introductory course—Recitations and discussions. 3 hours, second half-year. Given at Columbia and Barnard Colleges. Professor LORD

**1**—Introduction to psychology. 2 hours, lectures and demonstrations. President BUTLER, Professors WOODBRIDGE, CATTELL, STARR, FARRAND, STRONG, and THORNDIKE, Dr. WOODWORTH, Dr. JONES

- A.** Prolegomena to psychology. Two lectures. President BUTLER.
- B.** History of psychology. Six lectures. Professor WOODBRIDGE.
- C.** Physiological psychology. Eight lectures. Dr. WOODWORTH.
- D.** Experimental psychology. Eight lectures. Professor CATTELL.
- E.** Genetic psychology. Eight lectures. Professor THORNDIKE.
- F.** Comparative psychology. Eight lectures. Professor FARRAND.
- G.** Psychological aesthetics. Five lectures. Dr. JONES.
- H.** Pathological psychology. Three lectures. Professor STARR.
- J.** Philosophy of mind. Six lectures. Mr. STRONG.

**2**—Experimental psychology, introductory course—Lectures, themes, and demonstrations. 2 hours. Professor CATTELL

**3**—Experimental psychology—Laboratory work in connection with Psychology 2. 2 or 4 hours, counting as a 1- or 2-hour course. Professor CATTELL, assisted by Mr. RUGER

**4**—Problems in experimental psychology—Lectures and reports. 2 hours. Professor CATTELL

**5**—Research work in experimental psychology. Professor CATTELL, assisted by Mr. RUGER and Mr. BRUNER

**16**—(Same as Education 12)—Child study—Observation, experiments, private reading, and conferences. 2 hours. Professor THORNDIKE and Miss NORSWORTHY

**11**—(Same as Education 59)—Genetic psychology, advanced course. 2 hours. Professor THORNDIKE

**17**—(Same as Education 108)—The application of psychological and statistical methods to education. Professor THORNDIKE

**13**—(Same as Education 109)—Research work in genetic and comparative psychology. Professor THORNDIKE

**6**—Analytic psychology, advanced course—Lectures, discussions, and private reading. 2 hours. Professor STRONG

**[14—Philosophy of mind—Lectures, discussions, and private reading. 2 hours. Professor STRONG**

Not given in 1902-03.]



15—Research work in analytic psychology and the philosophy of mind. Professor STRONG

7—Diseases of the mind and nervous system—Lectures and demonstrations. 1 hour. Professor STARR

8—Physiological psychology, general course—Lectures, demonstrations, and laboratory work. 3 hours. Dr. WOODWORTH

9—Physiological psychology—Laboratory work in connection with Psychology 8. 2 or 4 hours, counting as a 1- or 2-hour course. Dr. WOODWORTH, assisted by Mr. BRUNER

19—The psychology of movement. 2 hours. Dr. WOODWORTH

12—Research work in physiological and abnormal psychology. Dr. WOODWORTH

Seminars. The courses devoted to research work are conducted as seminars.

Journal club. A journal club for reports and discussions of recent psychological literature meets bi-weekly in the afternoon, and monthly in the evening.

For Extension Courses in Psychology, see the special announcement of such work issued by Teachers College.

### Equipment

LIBRARY FACILITIES—The library facilities of Columbia University and of the city of New York, for students of philosophy and psychology, are unusually good. The University Library, open daily (except Sunday) for fifteen hours, contains more than 300,000 bound volumes and an equal number of pamphlets, and is being added to at the rate of more than 20,000 volumes annually. Any book needed by an advanced student can usually be bought at once. The collection of books on the history of philosophy is very large, that on Kant and his philosophy being especially complete. Over 800 periodicals are regularly received at the University Library, and among them will be found every journal of importance, American or foreign, dealing with philosophy or psychology. Duplicates of the more important books and journals are placed in the Psychological Laboratory, where there is also a card index of psychological literature containing over 15,000 titles. Students of psychology will also find much of value in the Library of the Academy of Medicine, 15 West 43d Street, which is open to students free of charge. The Astor and Lenox Libraries are also available for students, when introduced by one of the instructors, on especially favorable terms.

THE PSYCHOLOGICAL LABORATORY—The laboratory is in Schermerhorn Hall, a building "devoted to the advancement of natural science," erected in 1897 at a cost of over \$400,000. It occupies the eastern half of the second floor and part of the floor immediately above, the rooms being as follows: A lecture-room, seating one hundred students, used also as a general laboratory; a seminar room with a department

library, a workshop, a photographic and chemical room, an apparatus cabinet, an anthropometric laboratory, five rooms used as offices and laboratories by the officers of the department, and seven research laboratories. Two of these are dark-rooms, specially constructed to exclude sound as well as light, 18 feet high and well ventilated. The laboratory has light from the north and south, is supplied with electric current of both high and low potential, and is in all respects equipped both for instruction and research. The collection of apparatus has been gradually secured at a cost of over \$7,500. It includes: (1) Outfit for making and repairing apparatus, electric motors, etc. A skilled instrument-maker is continually employed, adding greatly to the efficiency of the laboratory. (2) The outfit of an anthropometric laboratory with which freshmen in the college and others are annually tested. (3) The apparatus, preparations, charts, etc., needed for complete courses in experimental, physiological, and genetic psychology; and (4) the apparatus that has been used or is being used in special researches, a large part of which has been made especially for the laboratory. The outfit for the courses of instruction is now in large measure secured, and the annual appropriations can be used chiefly for apparatus needed in special researches.

### Photography and Photomicrography

(See page 164.)

### Physical Education

THOMAS DENISON WOOD, M.D.....	<i>Professor</i>
GEORGE L. MEYLAN, M.D.....	<i>Adjunct Professor and Medical Director of the University Gymnasium</i>
WILLIAM SKARSTROM, M.D.....	<i>Instructor</i>
JOHN A. DAVIS.....	<i>Assistant</i>

The instruction in the Department of Physical Education includes the general courses in hygiene now offered and to be announced later in Columbia, Barnard, and Teachers Colleges, the instruction in physical training given in the various gymnasiums, and the courses offered in the professional course for the training of teachers of Physical Education in Teachers College.

### Courses

Hygiene a—Lectures, demonstrations, and practical work. 2 hours. Professor MEYLAN

There are also eight courses given under the auspices of Teachers College: Physical Education 1, 2, 3, 10, 11, 14, Education 49 and 150.

For detailed information regarding these courses see the *Announcement of Teachers College* and the *Announcement of the Division of Physical Education*, and for the *Extension courses in Physical Education* see the special announcement of such work issued by Teachers College.

## Equipment

For description of the University gymnasium see pages 59-60.

The Frederick Ferris Thompson Memorial Building, given to Teachers College by Mrs. F. F. Thompson, is now in process of erection. This will be a building of four stories devoted to the purposes of Physical Education and School Hygiene. It will contain offices, examination rooms, lecture and class rooms, laboratories, hand-ball courts, bowling alleys, a swimming pool, four gymnasiums, rooms for corrective exercises, dressing rooms, shower baths, fencing room, and a suite of rooms for photographic purposes. This building will provide physical-training facilities for the women, the pupils of the Horace Mann School, and the varied equipment for the theoretical and practical instruction of professional students in Physical Education.

## Physics

WILLIAM HALLOCK, Ph.D.....	<i>Professor</i>
ERNEST FOX NICHOLS, D.Sc.....	<i>Professor of Experimental Physics</i>
HERSCHEL C. PARKER, Ph.B.....	<i>Adjunct Professor</i>
MARGARET E. MALTBY, Ph.D.....	<i>Adjunct Professor (Barnard College)</i>
CHARLES C. TROWBRIDGE, M.S.....	<i>Instructor</i>
<sup>1</sup> FRANK L. TUFTS, Ph.D.....	<i>Instructor</i>
GEORGE BRAXON PEGRAM, Ph.D.....	<i>Tutor</i>
BERGEN DAVIS, Ph.D.....	<i>Tutor</i>
FANNIE C. FRISBIE, A.B.....	<i>Tutor (Barnard College)</i>
WILLIAM SCOFIELD DAY, Ph.D.....	<i>Lecturer</i>
CHARLES FORBES, B.S., M.D.....	<i>Curator</i>
LINVILLE L. HENDREN, A.M.....	<i>Assistant</i>
CLAUDE RUSSELL FOUNTAIN, A.B.....	<i>Assistant</i>
ALLEN H. NELSON, A.B.....	<i>Assistant</i>
EDWIN B. WHEELER, B.S.....	<i>Assistant</i>
PHILIP H. TARR, Ph.B.....	<i>Assistant</i>

## Courses

Courses 1, 2, 4, 31, 41, and 48 are open to properly qualified students in the College.

Course 1 is required of all students in the Applied Science, 3a, of all those except in Chemistry, 43, of students in Electrical Engineering.

Courses 2, 3a, 4, 41, and 43 to 50 may be counted toward the degrees of A.M. and Ph.D., 3 hours of lectures per week for a year, or their equivalent, being required for a minor or half-major for the A.M., and twice that amount for the corresponding credit for the Ph.D.

Courses equivalent to 1, 2, and 4 are given at Barnard College by Professor MALTBY and Miss FRISBIE

<sup>1</sup> Absent on leave.

**31**—General elementary physics. For students in medicine and those commencing the study of physics. 3 hours lectures and 3 hours laboratory work for a half-year, given twice annually. For the College, Professor HALLOCK. For medical students, Mr. TROWBRIDGE

**1**—General physics—Mechanics, properties of matter and electricity, first half-year. Sound, heat, and light, second half-year. 2 hours lectures, 1 hour recitation. Professor NICHOLS, Dr. DAY, Dr. PEGRAM, and Dr. DAVIS

**2**—Magnetism and electricity. First half-year. Sound, second half-year. 2 hours lectures and 2–6 hours laboratory work. Professor HALLOCK

**3a**—Physical laboratory work—Exact experimentation and measurement in the laboratories. 2 to 6 hours. Professor PARKER

**4**—Light (first half-year). Velocity, reflection, refraction, dispersion, instruments, the eye and theories of color. Heat (second half-year). Expansion, conduction, radiation, specific heat, and the mechanical equivalent. 3 hours lectures, 2 to 4 hours laboratory work. Professor HALLOCK and Dr. DAY

**5**—The design and construction of apparatus. 1 hour, first half-year. Professor HALLOCK

**41**—Fundamental phenomena of theoretical physics. 1 hour. Dr. DAVIS

**43**—Critical discussion of methods of measurement and computation according to the C. G. S. System. Electricity and magnetism, first half-year. Professor PARKER. Sound, light, and heat, second half-year. Dr. PEGRAM

**44**—Light, advanced course, given in the second half-year, following the first half of Course 4, including diffraction and polarization. 3 hours lectures. Professor HALLOCK

**45**—Heat, advanced course, given in the first half-year and presupposes the second half of Course 4. 3 hours lectures. Dr. DAY

**46**—Electricity, advanced course, given in the second half-year to follow the first half of Course 2. 2 hours lectures. Dr. PEGRAM

**47**—Sound, advanced course, given in the first half-year and presupposes the second half of Course 2. 2 hours lectures. Dr. PEGRAM

**48**—Courses in advanced laboratory work upon the various subjects of physics are arranged for properly qualified students. They will include collateral reading, and are intended to lead the way to original research.

**49**—Original research under the direction of the professors is open to properly qualified persons.

**50**—Course on the general subject of radiation. 2 hours. Professor NICHOLS



**Journal Club**—The Journal Club of the department meets every week for the discussion of the current literature of physics and of reports of special investigations. Dr. PEGRAM in charge

*For details regarding the courses in Physics offered in the Summer Session, see the Announcements of the Session, published in February of each year, and for the Extension courses in Physics, see the special announcement of such work issued by Teachers College.*

### Equipment

The laboratories and lecture-rooms of the department of Physics occupy four floors of Fayerweather on the eastern side of the University grounds. The building is supplied with all ordinary conveniences, including electricity for power and light, direct and alternating, compressed air, and steam. There is a vertical shaft 95 feet high, with gas, electric, and water outlets every ten feet. In the sub-basement a constant-temperature room is placed twelve feet below the surface of the ground. The meteorological instruments presented to the University by President Low are set up with the recording portions in the small library on the first floor, and are connected by an electric cable with the vanes, anemometer, and rain gauge, which, with allied pieces of apparatus, are placed upon an observation platform located on the roof of the building. There are the department office, two lecture-rooms, a library, the apparatus-room, the shop, and a small laboratory on the first floor, while the remaining three floors devoted to the department are occupied by laboratories of different kinds.

The general elementary laboratory includes in its equipment: three linear and three circular dividing engines of different designs; a Geneva Society comparator and dividing engine; a Grunow cathetometer, spherometers, optical levers, calipers, and micrometers of many kinds; eight balances with weights. Specific-gravity apparatus, hydrometers, aërometers, Becker and Jolly balances, standard mercurial barometers, aneroid and Mariott barometers, Kater's and Borda's pendulums, and apparatus for studying elasticity are provided; also monochords, Kundt's dust-figure apparatus, and sets of organ pipes and tuning-forks for the study of sound, thermometers and apparatus for their calibration, zero and boiling points, are supplied; also there is apparatus for determination of coefficients of expansion, for latent and specific heat, and for calorimetry.

The optical rooms are furnished with eight spectrometers of different designs, seven spectroscopes, small telescopes, opera-glasses, microscopes, sets of lenses, prisms, and gratings, goniometers, a sextant, optical benches, photometers, saccharimeters, total reflectometers, and apparatus for colorimetry, polarized light, and spectroscopy.

In the rooms devoted to electricity are eleven galvanometers of various patterns, high and low resistance, ballistic and dampened; electrometers, magnetometers, rheostats and bridges of all types;

condensers, batteries, keys, arc and incandescent lamps, ammeters and volt meters, and four standard ohms.

The workshop is furnished with a lathe, planer, grinding head, vises, carpenters' and machinists' benches, and tools for work in metal, wood, and glass.

Advanced students are taught and encouraged to repair, alter, and construct apparatus needed for their special work.

### *Phoenix Physical Laboratories*

The above title designates that part of the department which is devoted to original research. These laboratories are provided with much apparatus for use in investigations. Among the larger pieces are a 21-ft. concave grating spectroscope, a Michelson interferometer, two iron-clad galvanometers, induction coils, etc.

By the kindness of the Directors of the Botanical Gardens an opportunity is provided in the Bronx gardens for work at a distance from jar and electric disturbances.

## Physiological Chemistry

WILLIAM J. GIES, M.S., Ph.D.....	<i>Adjunct Professor</i>
ALFRED N. RICHARDS, A.M., Ph.D.....	<i>Tutor</i>
EDWARD R. POSNER, M.D.....	<i>Assistant</i>

### Preliminary Statement

*Detailed reference to the scope of the courses offered in this department may be found in the Announcements of the College of Physicians and Surgeons and of the Divisions of Biology and Chemistry.*

Course 1 is required, in the second year, of candidates for the degree of M.D. It is open (1) to first-year students of medicine who have been exempted from chemistry and physics, and who have the requisite knowledge of elementary physiology or biology; (2) also, as an elective, to qualified seniors in Columbia College who have had sufficient chemistry, physics and physiology or biology.

Courses 1, 2, 3, and 4 are offered as partial majors or minors for the degree of A.M. or Ph.D. They are open to post-graduate students of medicine.

Candidates for the degree of A.M. or Ph.D. in this department are required to take Course 1 or its equivalent.

In addition to the courses announced below, this department cooperates with the department of Physiology in giving Courses 4 and 6. (See page 177.)

None of the courses in this department is open to women.

### Courses

1—General physiological chemistry—Given each half-year. Lecture, 1 hour. Professor GIES. Combined conference and recitation, each section (2), 1 hour. Professor GIES. Laboratory exercises each section (2), 6 hours. Professor GIES, Dr. RICHARDS, and Dr. POSNER

2—Laboratory course in advanced physiological chemistry, including a study of clinical methods. 6 hours. Professor GIES and Dr. RICHARDS

3—Laboratory course in special physiological chemistry. 12 hours. Professor GIES

4—Physiological chemistry of plants, including a study of research methods. The course may be taken in whole or in part at the New York Botanical Garden, where Professor GIES is Consulting Chemist. 6 hours. Professor GIES

### Research

The laboratories are open to advanced workers for research.

### Equipment

The department of Physiological Chemistry is located at the College of Physicians and Surgeons and possesses four well-equipped laboratories. One large room is arranged for the accommodation of 72 workers at one time. Four smaller rooms are specially fitted up for original investigation by advanced students. The department is well equipped with apparatus for routine and research work in physiological chemistry.

The private library owned by Professor Gies is housed in the laboratory and is available to all the students in the University.

### Physiology

JOHN GREEN CURTIS, M.D.....	Professor
FREDERIC SCHILLER LEE, Ph.D.....	Adjunct Professor
RICHARD HOOP CUNNINGHAM, M.D.....	Instructor
RUSSELL BURTON-OPITZ, S.M., M.D.....	Instructor
HAVEN EMERSON, A.M., M.D.....	Assistant Demonstrator
LEANDER HOWARD SHEARER, M.D.....	Assistant Demonstrator
ARTHUR WALKER BINGHAM, M.D.....	Assistant Demonstrator

*A more detailed statement of the work and equipment of this department may be found in the Announcements of the College of Physicians and Surgeons and of the Division of Biology.*

### Preliminary Statement

Course 6 is open to juniors and seniors in Columbia College. No other course is open to undergraduates except in so far as Course 3 is required of seniors who are taking their first year in medicine.

A knowledge of general biology, such as is offered in the department of Zoölogy, Course 2, or of elementary physiology, such as Course 6 or its equivalent, or of the first year's work in medicine, is a pre-requisite to the undertaking of work in physiology by a candidate for the degree of A.M. or of Ph.D.

Candidates for the degree of A.M. may take Courses 1 and 2, or Courses 3 and 4, or Course 4 with a sufficient amount of prescribed reading, the particular combination of courses selected depending largely on the student's previous training.

Candidates for the degree of Ph.D. are expected to take during their first year Courses 1 and 2, and during their second year either (a) Course 4, with Course 3 or with a sufficient amount of prescribed reading, or (b) during their first half-year Course 4, with Course 3 or with a sufficient amount of prescribed reading, and during their second half-year Physiological Chemistry, Course 1.

Candidates for the degree of M.D. are required to take Course 3 during the second half of their first year and the first half of their second year.

None of the courses in this department is open to women.

### Courses

6—Elementary physiology. Given with the coöperation of the department of Physiological Chemistry. 1 hour lecture, and 2 hours laboratory work. 516 S. Professors LEE and GIES, and Dr. BURTON-OPITZ

1—General physiology. Lectures, 1 hour. Professor LEE

2—Laboratory course in general physiology. 5 hours. Professor LEE and Dr. BURTON-OPITZ

3—The physiology of man as related to that of other mammals and of lower vertebrates. Lectures and demonstrations, 4 hours. Recitations, 1 hour. Laboratory work, 3 hours. Professors CURTIS and LEE, and Drs. BURTON-OPITZ, EMERSON, SHEARER, and BINGHAM

4—Laboratory course in special physiology. 3 hours. Professor CURTIS and Dr. BURTON-OPITZ

5—Electro-physiology. Hours and work to be arranged with the instructor. Dr. CUNNINGHAM

### Research

The laboratory is open for research, under the direction of its officers, to advanced workers.

### Fellowships

For the Alumni Association Fellowships open to persons desiring to do special work in the department of Physiology, see page 46.

For the University Fellowships, also open as above, see page 31.



**Marine Laboratory**

An investigator's room at the Marine Biological Laboratory at Wood's Hole, Mass., has been provided by the University for the use of the department of Physiology. This renders possible, during the summer, researches upon the physiology of the marine fauna.

**Equipment**

The department of Physiology possesses:

I—At the College of Physicians and Surgeons:

- (1) A laboratory for research and the preparing of demonstrations.
- (2) A small laboratory for histological research with special reference to physiological problems.
- (3) Two rooms for optical or psychological work or for photography.
- (4) Two private laboratories for professors of the department.
- (5) Two laboratories for practical instruction.
- (6) A room for recitations and for lectures and demonstrations to limited classes.
- (7) Easy access to a large lecture-room specially fitted for experimental teaching.
- (8) The Swift Physiological Cabinet, for the accommodation of a specially endowed and very full collection of apparatus of precision, mainly for research.

II—In Schermerhorn Hall:

- (1) The use of a laboratory equipped for the instruction of undergraduates.

The physiological journals are accessible to the students of the department; also the most important monographs and other books, both modern and ancient.

A skilled mechanic is employed to devote his entire working time to the care and improvement of the plant, including the making, altering, and repairing of special apparatus. He also assists in the scientific manipulations.

**Political Economy and Finance**

(See page 96.)

**Political Philosophy**

(See page 122.)

**Portuguese and Rumanian**

(See pages 184-185.)

## Practice of Medicine

FRANCIS DELAFIELD, M.D., LL.D.	<i>Emeritus Professor of the Practice of Medicine</i>
WALTER B. JAMES, M.D.	<i>Professor of the Practice of Medicine</i>
FRANCIS P. KINNICUTT, M.D.	<i>Professor of Clinical Medicine</i>
A. BRAYTON BALL, M.D.	<i>Professor of Clinical Medicine</i>
GEORGE ROE LOCKWOOD, M.D.	<i>Instructor in Medical Diagnosis</i>
WILLIAM K. DRAPER, M.D.	<i>Instructor in Medical Diagnosis</i>
VAN HORNE NORRIE, M.D.	<i>Instructor in Physical Diagnosis</i>
FRANK W. JACKSON, M.D.	<i>Instructor in Medical Diagnosis</i>
GEORGE MONTAGUE SWIFT, M.D.	<i>Instructor in Medicine</i>
ALBERT E. SUMNER, M.D.	<i>Chief of Clinic and Instructor in Physical Diagnosis</i>
ARTHUR M. SHRADY, M.D.	<i>Instructor in Physical Diagnosis</i>
HENRY WOOLFE BERG, M.D.	<i>Instructor in Infectious Diseases</i>
DAVID BOVAIRD, Jr., M.D.	<i>Tutor in Medicine</i>
NATHANIEL B. POTTER, M.D.	<i>Tutor in Medicine</i>
FRED P. SOLLEY, M.D.	<i>Tutor in Medicine</i>
EDMUND L. DOW, M.D.	<i>Clinical Assistant and Tutor in Medicine</i>
EVAN EVANS, M.D.	<i>Tutor in Medicine</i>

## Clinical Assistants

HENRY S. PATTERSON, M.D.	D. S. D. JESSUP, M.D.
T. STUART HART, M.D.	HUGHES DAYTON, M.D.
CHARLES S. FISCHER, M.D.	LEWIS F. FRISSELL, M.D.
JAMES A. MILLER, M.D.	ROLFE FLOYD, M.D.

## Courses

Course 8 is required in the second year, Courses 1, 2, 4, 7, and 9 in the third year, Courses 1, 2, 3, 5, 6, and 9 in the fourth year, of candidates for the degree of M.D.

Attendance at the hospital clinics (Course 9) is optional in the third and fourth year.

1—The practice of medicine. Didactic lectures. 1 hour a week throughout the academic year. Professor JAMES

2—Clinical lectures on general medicine at the Vanderbilt Clinic. 2 hours a week throughout the academic year. Professors DELAFIELD and JAMES

3—Bedside instruction. In the wards of Roosevelt and Presbyterian Hospitals in sections. 6 hours a week for four weeks. Professor JAMES

4—Physical diagnosis. Practical instruction in the Vanderbilt Clinic. 24 lessons for each student. Drs. NORRIE, SUMNER, and SHRADY

5—Hospital general diagnosis. 20 lessons, 2 hours each, for each student, in the wards of Bellevue Hospital. Drs. JACKSON, LOCKWOOD, and DRAPER

6—Practical instruction in Infectious Diseases in the wards of the Willard Parker and Riverside Hospitals. Dr. BERG

7—Recitations in general medicine. In sections, 2 hours a week throughout the academic year. Drs. BOVAIRD, EVANS, POTTER, and SOLLEY

8—Recitations in general medicine. In sections. 1 hour a week throughout the academic year. Dr. DOW

9—Clinical lectures on general medicine—Roosevelt Hospital. Professor JAMES

M. at 4 P.M. throughout the academic year.

10—Hospital clinics in general medicine—New York Hospital. Professor BALL. (See Pharmacology and Therapeutics.)

S. at 10.30 A.M. from November through April.

Presbyterian Hospital. Professor KINNICUTT and Dr. THACHER

Tu. at 4 P.M. and S. at 3 P.M.

### **Provençal**

(See page 184.)

### **Psychology**

(See page 169.)

### **Public Law and Jurisprudence**

(See page 126.)

### **Rhetoric and English Composition**

(See page 107.)

### **Romance Languages and Literatures**

ADOLPHE COHN, LL.B., A.M.....	<i>Professor</i>
HENRY ALFRED TODD, Ph.D.....	<i>Professor of Romance Philology</i>
CARLO LEONARDO SPERANZA, LL.B., A.M.....	<i>Professor of Italian</i>
BENJAMIN DURYEA WOODWARD, Ph.D.....	<i>Professor</i>
LOUIS AUGUSTE LOISEAUX, S.B.....	<i>Instructor</i>
DANIEL JORDAN, S.B., Pd.B.....	<i>Instructor</i>
HENRY BARGY, A.M.....	<i>Tutor</i>
JOHN DRISCOLL FITZ-GERALD, A.B.....	<i>Tutor</i>
RICHARD T. HOLBROOK, Ph.D.....	<i>Tutor</i>
HENRI FRANÇOIS MULLER, A.B.....	<i>Tutor</i>
CURTIS HIDDEN PAGE, Ph.D.....	<i>Lecturer</i>

The department of Romance Languages and Literatures has charge of all the courses of instruction and research throughout the University dealing with the various languages that trace their origin to the speech

of ancient Rome. To the chief of these languages, the French, Italian, and Spanish, a foremost place is naturally assigned in the work of the department; but special attention is also given, in the more advanced courses, to the remaining members of the family, such as Old and Modern Provençal, Catalan, Portuguese, Rhæto-Romance, and Rumanian, several of which are possessed of noteworthy literary and philological interest.

The department offers: (1) to students in Columbia College, practical instruction in French, Italian, and Spanish, courses in French, Italian, and Spanish literature, and introductory instruction in Romance philology; (2) to students in the School of Philosophy, advanced instruction in literature and in Romance philology, courses in the languages unprovided for in Columbia College, and also instruction of a pedagogical character; (3) to university students at large, and also to auditors, an opportunity to follow special courses; while advanced students in particular may receive the preparation necessary to meet the requirements in French made of every candidate for the degree of Ph.D. One of the aims of the department is to offer at least one course in each of the languages of the Romance group. Although no course in philology proper is offered to members of the lower classes in the College, it may be stated that from the outset care is taken to suggest the significance of the historical development of the language taught, so as to furnish a solid foundation for grammatical knowledge, and to awaken in some portion of the students a taste for philological research.

The courses at present offered are grouped under the following headings: French, Italian, Spanish, Romance Philology.

French **A** is prescribed for freshmen not offering French for entrance. **1** is open to freshmen and sophomores having had **A** or an equivalent. **2** is open to students, not seniors, having had **B** or **1**, or an equivalent, and is prerequisite to **3**, **4**, **12**. **D** and **E** cannot be counted for a degree.

Italian **1** and Spanish **1** are open to all students, not seniors, having had the equivalent of the elementary entrance requirement in French and German, but they may not both be taken at the same time. Each is pre-requisite to Courses **2** and **3** in the same language.

The following courses will not be given in 1903-04, but will be given in 1904-05 (except Italian **2** and Romance Philology **4**, not given until 1905-06): French **6**, **7**, **9**, **11**, **17**, Italian **2**, **4**, Spanish **4**, Romance Philology **3**, **4**.

Courses **9** and **10**, under French, are given by Professor BRANDER MATTHEWS of the department of English.

*For fuller information as to the scope of each course in the department, the work pre-requisite to it, and the credit to be given toward the several degrees for it, see the Announcement of the Division of Modern Languages, which may be obtained without charge from the Secretary of the University.*

*For Extension courses in Romance Languages, see the special announcement of such work issued by Teachers College.*



## Courses in French

*(a) Designed specially for Undergraduates*

\*A—Elementary course. 3 hours. Columbia College, Mr. JORDAN, Dr. HOLBROOK, and Mr. MULLER; Barnard College, Professor WOODWARD. † Mr. MULLER

\*1—Grammar, reading, composition. 3 hours. Columbia College, Mr. JORDAN, Mr. FITZ-GERALD, and Dr. HOLBROOK; Barnard College, Professor WOODWARD and Dr. HOLBROOK. † Mr. FITZ-GERALD

\*2—General introduction to the study of French literature; composition. 3 or 4 hours. Columbia College, Mr. JORDAN and Mr. BARGY; Barnard College, Professor WOODWARD and Dr. HOLBROOK

Open as a three-hour course to students, not seniors, who have taken Course B or 1, or its equivalent, and to freshmen who have passed the advanced entrance examination in French; as a four-hour course to freshmen who have passed the intermediate entrance examination in French.

\*3—Historical French—Practice in reading, writing, and speaking French. 3 hours. Columbia College, Mr. MULLER; Barnard College, Mr. JORDAN

\*4—History of French literature in the seventeenth century. 3 hours. Columbia College, Mr. BARGY; Barnard College, Professor WOODWARD and Mr. BARGY

12—French idioms historically considered. 2 hours. Professor TODD

D—French conversation—Elementary course. Mr. MULLER

E—French conversation—Advanced course. Mr. BARGY

The following courses, with the exception of Course C, are open only to students who have taken at least Course 4, or who can offer a satisfactory equivalent for the work therein described.

*(b) Designed for Seniors and Graduates*

5—History of French literature in the eighteenth century, especially Voltaire. 3 hours. Professor COHN

[6—History of French literature in the eighteenth century, especially Montesquieu, Rousseau, and the Encyclopedists. 3 hours. Professor COHN]

15—History of French literature in the eighteenth century. 3 hours. Mr. BARGY

\*[7—History of the French literary movement in the first half of the nineteenth century. 2 hours. Columbia College, Dr. PAGE; Barnard College, Mr. BARGY]

\* Starred courses are given both in Columbia College and in Barnard College.

† In Teachers College.

‡ Given only in Barnard College.

\*8—History of the literary movement in France in the second half of the nineteenth century. 2 hours. Columbia College, Dr. PAGE; Barnard College, Mr. BARGY

[11—History of literary criticism in France, especially Sainte-Beuve and Brunetière. 2 hours. Mr. BARGY]

15—French literature in the sixteenth century, with special attention to Montaigne. 2 hours. Mr. BARGY

13—Old French. Reading of selected extracts. 2 hours. First half-year only. Professor TODD

14—Old French. Reading of complete texts. 2 hours. Second half-year only. Professor TODD

(c) *Designed specially for Graduate Students*

C—Elementary course for university students. 3 hours, first half-year. 2 hours, second half-year. Mr. MULLER

[9—The French dramatists of the nineteenth century. 2 hours. First half-year. Professor BRANDER MATTHEWS

Identical with first half of English 41.]

10—Molière and modern comedy. 2 hours. Professor BRANDER MATTHEWS

Identical with English 42.

16—Critical bibliography of French literature from the sixteenth to the nineteenth century. 2 hours. Professor COHN

[17—Methods of teaching French. 2 hours. Professor COHN]

Seminar—Special topics in Romance literature. The Life of Voltaire. 2 hours. Professor COHN

N.B.—For other advanced courses in French language and literature, see under Romance Philology.

**Courses in Italian**

(a) *Designed specially for Undergraduates*

\*1—Elementary course—Grammar, reading, composition. 3 hours. Columbia College, Dr. PAGE; Barnard College, Professor SPERANZA

(b) *Designed for Undergraduates and Graduates*

\*[2—Italian literature of the fourteenth and fifteenth centuries. Composition. 3 hours. Professor SPERANZA]

\*3—Italian literature from 1700 to 1790. Composition. 3 hours. Professor SPERANZA

[4—Modern Italian literature—Composition. 3 hours. Professor SPERANZA]

\* Starred courses are given both in Columbia College and in Barnard College.

5—Critical study of Dante's *Divina Commedia*. 2 hours. Professor SPERANZA

6—Outline history of Italian literature—Lectures and private reading. 1 hour. Professor SPERANZA

N.B.—For other advanced courses in Italian language and philology, see under Romance Philology.

### Courses in Spanish

#### (a) *Designed specially for Undergraduates*

\*1—Elementary course—Grammar, reading, composition. 3 hours. Mr. LOISEAUX

#### (b) *Designed for Undergraduates and Graduates*

2—General introduction to Spanish literature. Composition. 3 hours. Mr. FITZ-GERALD

\*3—The novela of the golden age. 3 hours. Mr. LOISEAUX

[4—The Spanish classical drama. Mr. LOISEAUX]

#### (c) *Designed specially for Graduate Students*

5—History of Spanish literature—Lectures and private reading. 1 hour. Mr. FITZ-GERALD

N.B.—For other advanced courses in Spanish language and philology see under Romance Philology.

### Optional Course

A—Spanish conversation. 1 hour. Mr. LOISEAUX

### Courses in Romance Philology

#### (a) *Designed for Seniors and Graduates*

1—Introduction to Romance philology. 2 hours. Professor TODD

#### (b) *Designed specially for Graduate Students*

Courses 2, 3, and 4 are given in successive years.

2—The works of Chrétien de Troyes. 1 hour. Professor TODD

[3—Old French dialects. 1 hour. Professor TODD]

[4—The formative elements of Romance speech. 1 hour. Professor TODD]

8—Old Provençal. 1 hour. Professor TODD

[9—The origins of Spanish poetry. *El Poema del Cid*. 1 hour. Professor TODD]

10—The oldest monuments of the Spanish language. 1 hour. Mr. FITZ-GERALD

11—Early Italian literature. 2 hours. Dr. HOLBROOK

12—Portuguese. 2 hours. Professor TODD

\* Starred courses are given both in Columbia College and in Barnard College.

**13—Rumanian. 2 hours. Professor COHN**

Seminar—Contributions to a dictionary of Old-French locutions.  
2 hours. Professor TODD

#### Public Course

The French drama of the seventeenth century. 1 hour. Professor COHN

This course is open to the public without fee. It consists only of lectures, given in English.

#### Public Lectures

Weekly lectures in French, and occasional lectures in Italian and Spanish, open to all members of the University, are given by the members of the department and by distinguished European lecturers.

#### The Romance Club

The Romance Club consists of all the instructors and advanced students in the department. At its meetings, which take place on the 2d and 4th Tuesdays of every month, in Room 300, West Hall,—an account is given of the most important articles on the Romance Languages and Literatures in the recent French, English, German, Italian, and Spanish periodicals; new books are discussed, letters from absent instructors and former students in the department are read, etc. The meetings are partly of a social character, and are intended to bring instructors and students into closer personal relations.

#### Equipment

The Library of Columbia University is well supplied with French, Spanish, and Italian works, as well as with works upon Romance philology. Its list of periodicals of interest for students in the department is especially rich. The Library has also complete sets of the most important series and collections, such as the *Altfranzösische Bibliothek*, *Romanische Bibliothek*, publications of the Modern Language Association, publications of the *Société des anciens Textes français*, *Histoire littéraire de la France*, *Ausgaben und Abhandlungen aus dem Gebiete der romanischen Philologie*, *Jahrbuch für romanische und englische Sprachen*, etc.

#### French Societies

Two societies have been organized for the purpose of fostering the use of the French language among the members of the University, viz., the *Société Française de l'Université Columbia*, which admits only men, and the *Société Française de Barnard College*, which admits only women. Joint meetings are held several times in the year by the two societies. They also give performances of French plays. The following plays have been presented in recent years: *Scribe and Legouvé, Bataille de Dames*; *Jules Moinaux, Les deux Sourds*; *Meilhac and Halévy, L'Eté de la Saint-Martin*; *Tristan Bernard, L'Anglais tel qu'on le parle*.



## Surgery

WILLIAM T. BULL, M.D.....	Professor
JOSEPH A. BLAKE, M.D.....	Professor
ROBERT F. WEIR, M.D.....	Professor of Clinical Surgery
CHARLES MCBURNEY, M.D.....	Professor of Clinical Surgery
GEORGE E. BREWER, M.D.....	Professor of Clinical Surgery
ANDREW J. MCCOSH, M.D.....	Clinical Lecturer
FRANK HARTLEY, M.D....	Professor of Clinical Surgery and Instructor in Operative Surgery
FRANCIS H. MARKOE, M.D.....	Professor of Clinical Surgery
CHARLES T. POORE, M.D.....	Clinical Lecturer
ROBERT ABBE, M.D.....	Clinical Lecturer
WILLIAM B. COLEY, M.D.....	Clinical Lecturer and Instructor
ELLSWORTH ELIOT, Jr., M.D.....	Clinical Lecturer and Demonstrator
BERN B. GALLAUDET, M.D.....	Instructor
LUCIUS W. HOTCHKISS, M.D.....	Instructor
CHARLES N. DOWD, M.D.....	Instructor
EDWARD M. FOOTE, M.D.....	Chief of Clinic and Instructor
WALTON MARTIN, M.D.....	Instructor
CARLETON P. FLINT, M.D.....	Instructor
FORBES HAWKES, M.D.....	Instructor
CLARENCE A. MCWILLIAMS, M.D.....	Instructor
CHARLES H. PECK, M.D....	Assistant Instructor in Operative Surgery
WARREN S. BICKHAM, M.D..	Assistant Instructor in Operative Surgery
ALFRED S. TAYLOR, M.D....	Assistant Instructor in Operative Surgery
A. EMIL SCHMITT, M.D.....	Assistant in Operative Surgery

## Clinical Assistants

D. S. D. JESSUP, M.D.	WILLIAM P. HERRICK, M.D.
F. R. COOK, M.D.	H. H. PELTON, M.D.
J. C. AYER, M.D.	ROWLAND COX, Jr., M.D.
H. E. MEEKER, M.D.	ARTHUR H. GARDNER, M.D.
A. S. TAYLOR, M.D.	JAMES H. KENYON, M.D.

## Courses

Courses 2, 8, and 9 are required, in both the third and fourth years, of candidates for the degree of M.D.; Courses 1 and 3 in the third year only, and Courses 5 and 6 in the fourth year. Course 7 is required in the latter half of the second year.

Attendance at the hospital clinics of Professors BULL, WEIR, BLAKE and BREWER is required; at other clinics attendance is optional.

1—Surgical pathology, general and regional surgery—Didactic lectures. 2 hours a week. Professors BULL and BLAKE

2—Clinics in general surgery at the Vanderbilt Clinic. 2 hours, M. and Th. at 12. Professors BLAKE and BREWER

3—Minor surgery and bandaging—Practical instruction at the Vanderbilt Clinic, and the out-patient department, Roosevelt Hospital. 24 lessons for each student. Drs. FOOTE and FLINT

4—Operative surgery upon the cadaver—Practical instruction to classes of 20 members each. Each student performs for himself upon the cadaver the principal operations, including the ligation of arteries, amputations, resections, and the removal of parts. Special attention is paid to operation, upon the abdominal viscera. 7 to 12 lessons for each student. Professor HARTLEY, Drs. PECK, BICKHAM, TAYLOR, and SCHMITT

5—Practical instruction in surgery to classes of 20 members each in the wards of Bellevue Hospital, the Syms Operating Theatre, Roosevelt Hospital, and the wards of the Presbyterian Hospital, 16 lessons. Professor BREWER, Drs. GALLAUDET, HOTCHKISS, FLINT, HAWKES, and McWILLIAMS

6—Practical instruction in the surgery of children at St. Mary's Free Hospital for Children, to classes of 20 members, once a week for two months for each student. Dr. DOWD

7—Recitations in surgical pathology. Two recitations per week in latter half of the second year. Dr. COLEY

8—Recitations in general and regional surgery. Three recitations per week in the third, and two per week in the fourth year. Dr. ELIOT

#### 9—HOSPITAL CLINICS:

Roosevelt Hospital—Th. at 11.45 A.M. from Oct. to Feb., Professors BULL and BLAKE; S. at 3.15 P.M., Professors WEIR and BREWER

New York Hospital—S. at 11.15 A.M. from Oct. to Feb., Professor MARKOE; and 11.15 A.M., from Feb. to May, Professor HARTLEY

St. Luke's Hospital—Th. or F. at 2.30 P.M. Professor MARKOE and Dr. ABBE

Presbyterian Hospital—Tu. at 3.30 P.M. throughout the academic year. Dr. McCOSH. W. and F. at 2.30 P.M. Dr. ELIOT

Hospital for the Ruptured and Crippled—Tu. and F., 8.30-9.30 A.M. Professors GIBNEY and BULL and Dr. COLEY. Tu., Th., and S., 1-3 P.M. Dr. WHITMAN

St. Mary's Free Hospital for Children—Th., 10.30-11.30 A.M. Dr. POORE. F. at 2.30 P.M. Dr. DOWD

## Zoölogy

EDMUND B. WILSON, Ph.D., LL.D.....	Professor
HENRY F. OSBORN, Sc.D., LL.D.....	Da Costa Professor
BASHFORD DEAN, Ph.D.....	Adjunct Professor
GARY N. CALKINS, Ph.D.....	Adjunct Professor
JAMES H. MCGREGOR, Ph.D.....	Instructor
OLIVER S. STRONG, Ph.D.....	Tutor

#### In Barnard College

HENRY E. CRAMPTON, Ph.D.....	Adjunct Professor
WILLIAM E. KELLCOTT, Ph.B.....	Tutor

Detailed information regarding the purpose and scope of the courses and the equipment of the laboratories is given in the circular of

information issued by the biological departments, for which application should be made to the Secretary of the University.

Course 2 is open to juniors and seniors in Columbia College, counting as four (shorter course) or six (longer course) points towards the degree of A.B.

Courses 3, 4, 13, 16, and 17 are open both to seniors in Columbia College and to graduates, and count towards the degree of A.B. as follows: Course 3, six points; Course 4 or 13 (alternates) three points; Courses 16 and 17, two points each.

Courses 3 to 23 are open to graduates, and may all count towards the higher degrees with the exception of Courses 16 and 17. Course 3, however, may not be counted as part of the major work towards the Ph.D. degree, and may not be counted as graduate work if previously taken as an undergraduate course.

The following are the usual general requirements (given as a guide to students), subject to modification in special cases. A major course for the M.A. degree requires, in addition to the dissertation, the equivalent of two one-day courses for one year; for example, Course 5 (a two-day course), Courses 4 and 8 (one-day courses), or any one of Courses 4, 8, 13, 18 (one-day courses), with any two of Courses 6, 7, 9, 10, 19, 21, 22, 23 (one-day half-year courses). A minor is approximately one half the major.

A Ph.D. major requires, in addition to the dissertation, a minimum of two one-day courses for two years. A minor is in general equivalent to an M.A. major; but in the case of students who have not taken Course 3 as undergraduates, this course may constitute one half the requirement, the remaining half comprising any one of the full-year courses 4, 8, 13, 18, or any two of the half-year Courses 6, 7, 9, 10, 19, 21, 22, 23.

Courses 2 and 3 are given separately at Barnard College by Professor CRAMPTON and Mr. KELLICOTT; all other courses are open to women, excepting 16 and 17.

### Undergraduate Courses

2—Elementary biology (zoölogy). The foundation of all the higher courses. Introductory to morphology and physiology, and to the general principles of biology. A year's course, divided into a shorter (2 lectures, 4 hours laboratory) and a longer (3 lectures, 6 hours laboratory) course, the latter including histology and embryology. Professors WILSON, DEAN, and CALKINS, Dr. MCGREGOR

### Intermediate Courses

Pre-requisite: Course 2 or an equivalent.

3—General zoölogy. General zoölogy, including embryology, of vertebrates and invertebrates; facts and principles of general morphology, classification, development, distribution, evolution, and ecology. An optional course in mammalian dissection may be taken by

prospective medical students as part of their work. 3 lectures, 6 hours laboratory work, throughout the year. Professors DEAN and CALKINS, Dr. MCGREGOR

4—Comparative neurology. An introduction to the structure of the brain and nervous system of higher and lower animals with especial reference to the vertebrates. Special training in neurological technique. 1 lecture and at least 4 hours laboratory work throughout the year. Dr. STRONG

13—The human brain and spinal cord. A study of the macroscopic and microscopic structure of the brain, with supplementary examination of the nervous systems of lower forms. Neurological technique. 1 lecture and at least 4 hours laboratory work throughout the year. Dr. STRONG

16—Practical histology. Comparative study of tissues and organs with especial reference to histological technique. Supplementary to Course 3, as additional preparation for courses in medicine or biology. 3 hours a week throughout the year. Dr. STRONG

17—Practical embryology. Comparative study of development, especially of vertebrates, with particular reference to embryological technique. Supplementary to Course 3 as additional preparation for courses in medicine and biology. 3 hours a week throughout the year. Under direction of Professors WILSON and DEAN

### University Courses

Pre-requisites: Courses 2 and 3 or an equivalent.

5—Comparative zoölogy. This course directly continues the work of Courses 2 and 3. Critical examination of the morphology and development of vertebrates and invertebrates, with especial reference to problems of classification and phylogeny. 10 hours (2 days) a week throughout the year.

a. Zoölogy of invertebrates, first half-year. Professors WILSON and CALKINS

b. Zoölogy of vertebrates, second half-year. Professor OSBORN and Dr. MCGREGOR

Either half of this course may be taken separately.

6—General embryology. Critical study of the more general problems of development, with especial reference to cellular and experimental embryology. 1 lecture a week, with reading, conferences, and specially arranged laboratory work, through the second half-year. Professor WILSON

7—Cellular biology. Structure and functions of the cell. Cytological technique. 1 day a week through the second half-year. Professor WILSON



8—Mammals, living and fossil. A study of the structure, evolution, and classification of the Mammalia. 6 hours (1 day) a week throughout the year. Professor OSBORN

The latter part of this course is given in the American Museum of Natural History.

9—Fishes, living and fossil. Morphology and phylogenetic relations of the sub-classes and orders of fishes. 1 lecture a week with reading and demonstrations during half a year. Professor DEAN

10—The Protozoa. Classification, morphology, and physiology of unicellular organisms in relation to modern theories of biology. 1 lecture and 2 hours laboratory a week during second half-year. Professor CALKINS

11—Advanced biology. Individual study of special biological problems. Original investigation. The time varies in different cases.

15—Sanitary biology. A general study of the Protozoa and other microscopic forms in their relations to sanitary science. Biological examination of drinking waters. Methods and results. Selected readings. Lecture and laboratory work. 3 hours a week during the second half-year. Professor CALKINS

Designed for students in Civil Engineering, Sanitary Science, and Chemistry.

18—Comparative embryology. General facts and principles of animal development, with especial reference to comparative organogeny. 1 day a week throughout the year. Professors DEAN and CALKINS

19—The Protochordates—Morphology and embryology of the protochordate groups and allied forms with special reference to the problems of vertebrate descent. Lectures and laboratory work. 1 day a week during the first half-year. Dr. MCGREGOR

20—The statistical study of variation (given in coöperation with the department of Anthropology) — Lectures, essays, discussions, and laboratory work, on the characteristic features of variability and methods of treatment by modern statistical research. 2 lectures (Professor BOAS) and 2 hours laboratory work (Professor CRAMPTON). Elementary course (Anthropology 2) in the first half-year, and advanced course (Anthropology 8) in the second half-year.

21—Experimental and physiological morphology—Developmental mechanics, regeneration, and related topics. 1 lecture a week, with readings and conferences, during the first half-year. Professor CRAMPTON

22—The Enterocœla—Morphology and embryology of the Prosopygia and Echinoderma, with critical discussion of their relationship to other invertebrates and to the protochordates. 1 lecture and 5 hours laboratory work a week in the second half-year. Professor CRAMPTON

23—The sense-organs of invertebrates—Comparative morphology

and physiology of the primitive organs of sense. 1 lecture a week with demonstration and readings, second half-year. Professor CALKINS

**JOURNAL CLUB**—Reports and discussions of recent literature by members of the staff, graduate students, and others. 1 hour a week throughout the year. Under direction of Professors WILSON and DEAN

**SEMINAR**—Critical discussion of selected topics by members of the staff and graduate students. Subject and time are specially arranged.

**UNIVERSITY BIOLOGICAL LECTURES**—A course of lectures on general topics, given, as a rule, each year, by members of the staff and eminent specialists from other institutions. These lectures form the basis of the Columbia Biological Series, edited by Professors OSBORN and WILSON

#### Laboratories, Libraries, and Equipment

The zoological laboratories on the upper floor of Schermerhorn comprise a large general undergraduate laboratory, two graduate laboratories, a laboratory for neurology, and eight rooms for private research, besides special rooms for supplies, aquaria, and preparation. There are also a commodious lecture-room, a library, and a seminar room. The laboratories are well equipped with optical instruments, microtomes, and other apparatus for advanced work. The teaching collections include a series of the Mediterranean and American marine types, the injected vertebrate series of Fric and Müller, a set of standard and specially prepared charts and wax models, and a variety of living animals and plants contained in fresh-water and marine aquaria.

The departmental library, a part of the University library kept in the laboratory, the gift of Charles H. Senff, Esq., is a memorial to the late Dr. John I. Northrop. It embraces sets of the standard biological works and includes the journals and a rapidly increasing collection of special monographs. A fund is available for the purchase of literature needed in connection with the special researches of students. Forty-three of the current biological journals are subscribed for.

Important adjuncts to zoological work are offered by the American Museum of Natural History, the Bronx Zoological Garden, the New York Aquarium, by the marine biological laboratories at Wood's Hole, Mass., and Cold Spring Harbor, L. I. The University has hitherto subscribed to one half of the university table at the Naples Zoological Station. An investigator's table is held at the Wood's Hole laboratory, and the John D. Jones scholarship is available at the Cold Spring Harbor laboratory.

**DYCKMAN FUND**—The interest of a fund of \$10,000, established by the late Isaac M. Dyckman, Esq., is available annually for the encouragement of biological research, and may be used for special grants to advanced students, investigators, or lecturers, or for purchases of books and apparatus.

# ENTRANCE EXAMINATIONS

## GENERAL STATEMENT

There are no examinations for admission to the Schools of Law, Political Science, Philosophy, and Pure Science, or for admission to the graduate courses under the Faculties of Applied Science and Teachers College. For the requirements for admission to these departments, see the separate announcements of the Schools and Faculties concerned.

Examinations for admission to Columbia College, Barnard College, Teachers College (Collegiate Course), the College of Physicians and Surgeons, and the Schools of Applied Science and Architecture are held twice each year, in June, on the date set by the College Entrance Examination Board, and in September on the Monday of the week preceding that during which the University opens. In 1904 they will begin on June 20 and September 19, respectively.

In June, 1904, the entrance examinations of Columbia University will be those of the College Entrance Examination Board of which Columbia University is a member. These examinations will be held June 20-25.

Candidates are admitted to the several colleges and schools of the University on the numerical ratings of the College Entrance Examination Board, which are accepted without change. A uniform passing mark is, however, determined by the action of the respective Committees on Admission.

In September, 1904, the entrance examinations of Columbia University will be conducted by the Columbia University Committee on Entrance Examinations and will be held only at the University. The College Entrance Examination Board at present holds no examinations in September.

As the requirements are subject to modification, candidates should obtain the special announcement of Entrance Examinations which will appear in February.

## APPLICATION FOR EXAMINATION

Every candidate for examination is required to file an application for examination.

For the examinations in June, 1904, the application must be filed with the Secretary of the College Entrance Examination Board, Post-Office Sub-Station 84, New York, N. Y. Applications for examination in New England, in the Middle States, or in Maryland, must be filed on or before June 6. Applications for examination elsewhere in



the United States or in Canada must be filed on or before May 30. Applications for examination outside of the United States and Canada must be filed on or before May 16. Candidates filing their application later than the dates named do so at their own risk. Requests for blank forms of application should be addressed to the Secretary of the College Entrance Examination Board and should be accompanied by return postage.

For the examinations in September, 1904, candidates for admission to Columbia College, the College of Physicians and Surgeons, or the Schools of Applied Science and Architecture should send their applications by mail to the Registrar of Columbia University; candidates for admission to Barnard College should send their applications to the Registrar of Barnard College; and for Teachers College, to the Registrar of Teachers College. Applications must be filed on or before September 12. Requests for blank forms of application should be addressed to the Secretary of Columbia University.

#### EXAMINATION FEE

Every application for examination in June must be accompanied by a fee of \$5 in the form of a postal order, express order, or draft on New York, to the order of the *College Entrance Examination Board*, for all candidates examined at points in the United States and Canada, and \$15 for all candidates examined at points outside of the United States and Canada.

Every application for examination in September must be accompanied either by a fee of \$5 in the form of a postal order, express order, or draft on New York, to the order of *Columbia University*, by a receipt from the Bursar for an examination fee previously paid, or by the receipt issued by the Secretary of the College Entrance Examination Board for the June examinations of the same year.

If a late application is accepted either by the College Entrance Examination Board, or by the University Committee on Entrance Examinations, a second fee of \$5 is charged to the candidate making such late application.

In every case a candidate who has paid the examination fee will be furnished with a receipt. This receipt should be carefully preserved. It must be presented by the candidate to the Supervisor in charge of the examinations which he attends as evidence that he is entitled to be admitted to the same.

#### DIVISION OF EXAMINATION

A candidate may take examinations in June (but not in September) of the year preceding that in which he proposes to enter the University. Such examinations are known as preliminary examinations. At his preliminary examinations a candidate may, with the approval of his principal instructor, offer any subject or lettered (or numbered) part of a subject (see Definitions of Requirements, page 195).

In the year in which he purposes to enter the University, a candidate



may divide his examinations between June and September in whatever manner he may wish, and he may offer again in September any subject in which he may have failed at the June examinations.

The results of an entrance examination are allowed to stand to the credit of a candidate for sixteen months, but not longer.

#### PLACES OF EXAMINATION

In June, 1904, entrance examinations will be held at a large number of widely distributed points.

A list of the places at which the examinations are to be held will be published about March 1st, and may be obtained from the Secretary of the College Entrance Examination Board, Post-Office Sub-Station 84, New York City, N. Y. Requests that the examinations be held at particular points, to receive proper consideration, should be transmitted to the Secretary of the College Entrance Examination Board not later than February 1st.

In September, 1904, examinations for admission to Columbia University will be held only at the University.

#### EXAMINATION SUBJECTS

Columbia University recognizes the following examination subjects, which may be offered for admission to one or more of the colleges and schools included in the University, each subject counting for a specific number of points as indicated below:

English.....	3	Advanced History <sup>1</sup> .....	1
Elementary History.....	2	" Mathematics.....	1
" Mathematics.....	3	" Latin <sup>1</sup> .....	1
" Latin.....	4	" Greek <sup>1</sup> .....	1
" Greek.....	3	" Physics <sup>1</sup> .....	1
" French.....	2	Botany.....	1
" German.....	2	Chemistry.....	1
" Spanish.....	2	Drawing.....	1
" Physics.....	1	Physiography.....	1
Intermediate French.....	1	Zoölogy <sup>1</sup> .....	1
" German.....	1		

The combinations of subjects which may be offered for admission to the several colleges and schools are indicated in this catalogue in the part devoted to each college or school, under the heading Admission.

#### TIME-SCHEME OF EXAMINATIONS

In both June and September, 1904, entrance examinations will be conducted at Columbia University. Examinations for men will be held in the Columbia University Gymnasium; and for women, in the Barnard College Theatre.

Candidates taking these examinations must report to the Supervisor, in the examination room, fifteen minutes in advance of the first examination which they are to attend.

<sup>1</sup> Candidates will be examined in this subject only in September.

A schedule of the hours at which examinations in the various subjects will be held may be obtained by addressing the Secretary of the University.

### DEFINITIONS OF REQUIREMENTS<sup>1</sup>

(Specimens of the question papers set by Columbia University may be obtained from the Registrar upon application. The question papers set by the College Entrance Examination Board are published in book form by Ginn & Company, Boston, Mass. The volumes for 1901, 1902, and 1903 are sold for sixty cents each.)

#### BOTANY<sup>2</sup> (counting one point)

The candidate should have received training by means of the laboratory method in:

The structure and the more obvious features of the life history of at least ten types among the higher seed plants chosen from the more representative families (*e. g.*, Gramineæ, Liliaceæ, Salicaceæ, Ranunculaceæ, Rosaceæ, Leguminosæ, Cruciferæ, Solanaceæ, Labiataæ, Compositæ). In addition to these, the following types are recommended among the remaining lower groups of plants: pine, *Selaginella*, a fern, a moss (*Polytrichum* or *Funaria*), a leafy hepatic, *Marchantia*, a mildew (*Microspora*), an agaric, *Vaucheria*, *Spirogyra*, and a protophyte (preferably *Sphaerella*).

Physiology. This work should cover the essential facts concerning irritability, photosynthesis, respiration, digestion, growth, and reproduction.

Ecology. The natural history of plants should receive considerable attention, and the behavior of plants toward environmental factors (especially light and moisture), dissemination, cross and close pollination, and the more important structural and physiological characteristics of plant formations (hydrophytes, halophytes, mesophytes, and xerophytes) should be included.

As evidence of proper laboratory training and of satisfactory work, the note-book of the candidate should be submitted *at the time of the examination*. The note-book must bear the endorsement of the teacher, certifying that it is a true record of the candidate's work. Candidates desiring the return of their note-books should apply for them after the examination to the Secretary of the University. Note-books for the return of which no application is made will be preserved for one year only.

<sup>1</sup> The several subjects are stated in terms of units; the unit is a course of five periods weekly throughout an academic year of the preparatory school; the subjects are assigned units in accordance with the time required to prepare adequately upon them for college entrance.

<sup>2</sup> For a more detailed statement of the requirement in Botany the reader is referred to the definitions of the requirements published by the College Entrance Examination Board. Applications for the pamphlet containing these definitions should be addressed to the Secretary of the College Entrance Examination Board, Post-Office Sub-Station 84, New York, N. Y.

## CHEMISTRY (counting one point)

The candidate's preparation in Chemistry should include:

- a. The study of a standard text-book, to the end that the pupil may gain a comprehensive and connected view of the most important facts and laws of elementary chemistry.
- b. Instruction by lecture-table demonstrations, to be used mainly as a basis for questioning upon the general principles involved in the pupil's laboratory investigations.
- c. Individual laboratory work, comprising at least forty exercises.

The following outline includes only the indispensable things which must be studied in the class-room and laboratory. The material is, for the most part, common to all elementary text-books and laboratory manuals. The order of presentation will naturally be determined by each teacher for himself.

OUTLINE.—The chief physical and chemical characteristics, the preparation, and the recognition of the following elements together with their principal compounds: *oxygen, hydrogen, carbon, nitrogen, chlorine, bromine, iodine, fluorine, sulphur*, phosphorus, silicon, potassium, *sodium*, calcium, magnesium, *zinc*, copper, mercury, silver, aluminum, *lead*, tin, *iron*, manganese, chromium.

More detailed study should be confined to the italicized *elements* (as such) and to a restricted list of compounds such as: water, hydrochloric acid, carbon-monoxide, carbon-dioxide, oxides of nitrogen, nitric acid, ammonia, sulphur-dioxide, sulphuric acid, hydrogen-sulphide, sodium-hydroxide, ammonium-hydroxide.

Attention should be given to the atmosphere (constitution and relation to animal and vegetable life), flames, acids, bases, salts, oxidation and reduction, crystallization, combining proportions by weight and volume, calculations founded on these and Boyle's and Charles's laws, symbols and nomenclature, atomic theory, atomic weights, valency (in a very elementary way), nascent state, natural grouping of the elements, solution (solvents and solubility of gases and solids and liquids, saturation), strength of acids and bases, conservation and dissipation of energy, chemical energy, electrolysis. Chemical terms should be clearly understood, and the pupil should be able to illustrate and apply the ideas they embody. The theoretical topics are not intended to form separate subjects of study, but to be taught only so far as is necessary for the correlation and explanation of the experimental facts.

A list of suitable laboratory experiments is contained in the definitions of the requirements published by the College Entrance Examination Board and may be obtained upon application to the Secretary of the Board, Post-Office Sub-Station 84, New York, N. Y.

LABORATORY NOTE-BOOK.—Every candidate must present *at the time of his examination in chemistry* a note-book in which he has recorded the steps and the results of his laboratory experiments. A candidate



who fails to present such a note-book cannot receive credit for the examination. Each note-book must contain an index of the experiments which it describes and must be endorsed by the instructor, the endorsement being written in ink on the inside of the cover. The endorsement must in effect be as follows:

I certify that this note-book is a true and original record of experiments actually performed by.....  
in the chemical laboratory of.....School  
during the year 19....

Instructor in Chemistry.

#### DRAWING (counting one point)

A candidate must be able to draw and sketch correctly and with proper shading a simple geometrical figure or a group of geometrical solids, or to sketch a simple piece of machinery or a house with correct construction and accuracy of proportion, with a fair knowledge of the rules of perspective and light and shade as applied in freehand sketching. A candidate must also be able to reproduce from a flat copy with enlargement or reduction in size. For candidates for the School of Architecture, the object to be copied will usually be an ornament—an anthemion or acanthus leaf—or a design of iron scrollwork; for the other Schools of Applied Science, the subject will be chosen from machinery details or geometrical constructions; for Teachers College, from geometrical solids, still life, or simple plant forms.

A candidate who has had a fair amount of training in drawing and wishes to be excused from a formal examination in this subject may at the time of the entrance examinations submit drawings, especially systematic sets of drawings, executed at school. They should be accompanied by a certificate from his teacher to the effect that they are the candidate's own work. If they indicate a satisfactory proficiency, they will be accepted in lieu of the examination. Drawings thus submitted should be sent to the *Secretary of Columbia University* at least two weeks before the day on which the examinations begin.

#### ENGLISH (counting three points)

No applicant will be accepted in English whose work is notably defective in point of spelling, grammar, idiom, punctuation, or division into paragraphs.

- a. Reading and composition.—The candidate will be required to present evidence of a general knowledge of the subject-matter of the prescribed books, and to answer simple questions on the lives of their authors. The form of examination will usually be the writing of a paragraph or two on each of several topics, to be chosen by the candidate from a considerable number—perhaps ten or fifteen—set before him in the examination paper. The treatment of these topics is designed to show the candi-



date's power of clear and accurate expression, and will call for only a general knowledge of the substance of the books. In place of a part or the whole of this test, the candidate may present an exercise book,<sup>1</sup> properly certified by his instructor, containing compositions or other written work done in connection with the reading of the books.

The candidate is expected to read intelligently *all* the books prescribed. He should read them as he reads other books; he is not expected to know them minutely, but to have freshly in mind their most important parts. In preparation for this part of the requirement, it is important that the candidate shall have been instructed in the fundamental principles of rhetoric.

Candidates offering this part of the requirement as a preliminary subject should be prepared on the books prescribed for the year in which they propose to enter the University.

The books prescribed for this part of the examination are as follows:

In 1904 and 1905: Shakspeare's Merchant of Venice and Julius Cæsar; The Sir Roger de Coverley Papers in the Spectator; Goldsmith's Vicar of Wakefield; Coleridge's Ancient Mariner; Scott's Ivanhoe; Carlyle's Essay on Burns; Tennyson's Princess; Lowell's Vision of Sir Launfal; George Eliot's Silas Marner.

In 1906, 1907, and 1908: Shakspeare's The Merchant of Venice and Macbeth; The Sir Roger de Coverley Papers in the Spectator; Irving's Life of Goldsmith; Coleridge's Ancient Mariner; Scott's Ivanhoe and The Lady of the Lake; Tennyson's Gareth and Lynette, Lancelot and Elaine, and The Passing of Arthur; Lowell's Vision of Sir Launfal; George Eliot's Silas Marner.

- b. Study and composition.—This part of the examination presupposes the thorough study of each of the works named below. The examination will be upon the subject-matter, the literary form, and the logical structure. The candidate may be required, in addition, to answer questions involving the essentials of English grammar, and questions on the leading facts in those periods of English literary history to which the prescribed works belong.

In connection with the reading and study of the required books, parallel or subsidiary reading should be encouraged, and a considerable amount of English poetry should be committed to memory. The essentials of English grammar should not be neglected in preparatory study.

<sup>1</sup> Such exercise books should be prepared in accordance with a list of directions, to be obtained by addressing the Secretary of the University. *Exercise books should be sent to the Secretary of Columbia University not later than two weeks before the first day of the examinations.* Within ten days the teacher will be informed whether the candidate is, or is not, excused from examination on the books prescribed for reading. Exercise books will *not* be returned to the writers.

The books prescribed for this part of the examination are as follows:

In 1904 and 1905: Shakspeare's *Macbeth*; Milton's *Lycidas*, *Comus*, *L'Allegro*, and *Il Penseroso*; Burke's *Speech on Conciliation with America*; Macaulay's *Essays on Milton and Addison*.

In 1906, 1907, and 1908: Shakspeare's *Julius Cæsar*; Milton's *Lycidas*, *Comus*, *L'Allegro*, and *Il Penseroso*; Burke's *Speech on Conciliation with America*; Macaulay's *Essay on Addison and Life of Johnson*.

### FRENCH

#### a. Elementary (counting two points)

THE AIM OF THE INSTRUCTION.—At the end of the elementary course the pupil should be able to pronounce French accurately, to read at sight easy French prose, to put into French simple English sentences taken from the language of everyday life, or based upon a portion of the French text read, and to answer questions on the rudiments of the grammar, as defined below.

THE WORK TO BE DONE.—During the first year the work should comprise: (1) careful drill in pronunciation; (2) the rudiments of grammar, including the inflection of the regular and the more common irregular verbs, the plural of nouns, the inflection of adjectives, participles, and pronouns; the use of personal pronouns, common adverbs, prepositions, and conjunctions; the order of words in the sentence, and the elementary rules of syntax; (3) abundant easy exercises, designed not only to fix in the memory the forms and principles of grammar, but also to cultivate readiness in the reproduction of natural forms of expression; (4) the reading of from 100 to 175 duodecimo pages of graduated texts, with constant practice in translating into French easy variations of the sentences read (the teacher giving the English), and in reproducing from memory sentences previously read; (5) writing French from dictation.

During the second year the work should comprise: (1) the reading of from 250 to 400 pages of easy modern prose in the form of stories, plays, or historical or biographical sketches; (2) constant practice, as in the previous year, in translating into French easy variations upon the texts read; (3) frequent abstracts, sometimes oral and sometimes written, of portions of the text already read; (4) writing French from dictation; (5) continued drill upon the rudiments of grammar, with constant application in the construction of sentences; (6) mastery of the forms and use of pronouns, pronominal adjectives, of all but the rare irregular verb forms, and of the simpler uses of the conditional and subjunctive.

Suitable texts for the second year are: About's *Le roi des montagnes*, Bruno's *Le tour de la France*, Daudet's easier short tales, La Bédollière's *La Mère Michel et son chat*, Erckmann-Chatrian's stories, Foa's

*Contes biographiques* and *Le petit Robinson de Paris*, Foncin's *Le pays de France*, Labiche and Martin's *La poudre aux yeux* and *Le voyage de M. Perrichon*, Legouv   and Labiche's *La cigale chez les fourmis*, Malbot's *Sans famille*, Mair  t's *La t  che du petit Pierre*, M  rim  e's *Colomba*, extracts from Michelet, Sarcey's *Le si  ge de Paris*, Verne's stories.

**b. Intermediate** (counting one point)

**THE AIM OF THE INSTRUCTION.**—At the end of the intermediate course the pupil should be able to read at sight ordinary French prose or simple poetry, to translate into French a connected passage of English based on the text read, and to answer questions involving a more thorough knowledge of syntax than is expected in the elementary course.

**THE WORK TO BE DONE.**—This should comprise the reading of from 400 to 600 pages of French of ordinary difficulty, a portion to be in the dramatic form; constant practice in giving French paraphrases, abstracts or reproductions from memory of selected portions of the matter read; the study of a grammar of moderate completeness; writing from dictation.

Suitable texts are: About's stories, Augier and Sandeau's *Le gendre de M. Poirier*, B  ranger's poems, Corneille's *Le Cid* and *Horace*, Copp  e's poems, Daudet's *La Belle-Nivernaise*, La Br  te's *Mon oncle et mon cur  *, Madame de S  vign  's letters, Hugo's *Hernani* and *La chute*, Labiche's plays, Loti's *P  cheur d'Islande*, Mignet's historical writings, Moli  re's *L'avare* and *Le bourgeois gentilhomme*, Racine's *Athalie*, *Andromaque*, and *Esther*, George Sand's plays and stories, Sandeau's *Mademoiselle de la Seigli  re*, Scribe's plays, Thierry's *R  cits des temps m  rovingiens*, Thiers's *L'exp  dition de Bonaparte en Egypte*, Vigny's *La canne de jonc*, Voltaire's historical writings.

**c. Advanced**<sup>1</sup>

**THE AIM OF THE INSTRUCTION.**—At the end of the advanced course the pupil should be able to read at sight, with the help of a vocabulary of special technical expressions, difficult French not earlier than that of the seventeenth century; to write in French a short essay on some simple subject connected with the works read; to put into French a passage of easy English prose; and to carry on a simple conversation in French.

**THE WORK TO BE DONE.**—This should comprise the reading of from 600 to 1000 pages of standard French, classical and modern, only difficult passages being explained in the class; the writing of numerous short themes in French; the study of syntax.

Suitable reading matter will be: Beaumarchais's *Barbier de S  ville*;

<sup>1</sup> Advanced French must be offered by candidates who wish to enter the course French 2 (see courses announced by the Department of Romance Languages and Literatures). It may not be counted among the points required for admission.



Corneille's dramas; the elder Dumas's prose writings; the younger Dumas's *La question d'argent*; Hugo's *Ruy Blas*, lyrics, and prose writings; La Fontaine's fables; Lamartine's *Graziella*; Marivaux's plays; Molière's plays; Musset's plays and poems; Pellisser's *Mouvement littéraire au XIX<sup>e</sup> siècle*; Renan's *Souvenirs d'enfance et de jeunesse*; Rousseau's writings; Sainte-Beuve's essays; Taine's *Origines de la France contemporaine*; Voltaire's writings; selections from Zola, Maupassant, and Balzac.

### GERMAN

#### a. Elementary (counting two points)

THE AIM OF THE INSTRUCTION.—At the end of the elementary course in German the pupil should be able to read at sight, and to translate, if called upon, by way of proving his ability to read, a passage of very easy dialogue or narrative prose, help being given upon unusual words and constructions, to put into German short English sentences taken from the language of everyday life or based upon the text given for translation, and to answer questions upon the rudiments of grammar, as defined below.

THE WORK TO BE DONE.—During the first year the work should comprise: (1) careful drill upon pronunciation; (2) the memorizing and frequent repetition of easy colloquial sentences; (3) drill upon the rudiments of grammar—that is, upon the inflection of the articles, of such nouns as belong to the language of everyday life, of adjectives, pronouns, weak verbs, and the more usual strong verbs; also upon the use of the more common prepositions, the simpler uses of the modal auxiliaries, and the elementary rules of syntax and word-order; (4) abundant easy exercises designed not only to fix in mind the forms and principles of grammar, but also to cultivate readiness in the reproduction of natural forms of expression; (5) the reading of from 75 to 100 pages of graduated texts from a reader, with constant practice in translating into German easy variations upon sentences selected from the reading lesson (the teacher giving the English), and in the reproduction from memory of sentences previously read.

During the second year the work should comprise: (1) the reading of from 150 to 200 pages of literature in the form of easy stories and plays; (2) accompanying practice, as before, in the translation into German of easy variations upon the matter read, and also in the off-hand reproduction, sometimes orally and sometimes in writing, of the substance of short and easy selected passages; (3) continued drill upon the rudiments of the grammar, directed to the ends of enabling the pupil, first, to use his knowledge with facility in the formation of sentences, and, secondly, to state his knowledge correctly in the technical language of grammar.

Stories suitable for the elementary course can be selected from the following list: Andersen's *Märchen* and *Bilderbuch ohne Bilder*; Arnold's



*Fritz auf Ferien*; Baumbach's *Die Nonna* and *Der Schwiegersohn*; Gerstäcker's *Germelshausen*; Heyse's *L'Arrabbiata*, *Das Mädchen von Treppi*, and *Anfang und Ende*; Hillern's *Höher als die Kirche*; Jensen's *Die braune Erica*; Leander's *Träumereien* and *Kleine Geschichten*; Seidel's *Märchen*; Stökl's *Unter dem Christbaum*; Storm's *Immensee* and *Geschichten aus der Tonne*; Zschokke's *Der zerbrochene Krug*.

Among the shorter plays the best available are perhaps Benedix's *Der Prozess*, *Der Weiberfeind*, and *Günstige Vorzeichen*; Elz's *Er ist nicht eifersüchtig*; Wichert's *An der Majorsecke*; Wilhelm's *Einer muss heiraten*. It is recommended, however, that not more than one of these plays be read. The narrative style should predominate. A good selection of reading matter for the second year would be Andersen's *Märchen*, or *Bilderbuch*, or Leander's *Träumereien*, to the extent of, say, forty pages. After that such a story as *Das kalte Herz*, or *Der zerbrochene Krug*; then *Höher als die Kirche*, or *Immensee*; next a good story by Heyse, Baumbach, or Seidel; lastly *Der Prozess*.

#### b. Intermediate (counting one point)

THE AIM OF THE INSTRUCTION.—At the end of the intermediate course the pupil should be able to read at sight German prose of ordinary difficulty, whether recent or classical; to put into German a connected passage of simple English, paraphrased from a given text in German; to answer any grammatical questions relating to usual forms and essential principles of the language, including syntax and word-formation; and to translate and explain (so far as explanation may be necessary) a passage of classical literature taken from some text previously studied.

THE WORK TO BE DONE.—The work should comprise, in addition to the elementary course, the reading of about 400 pages of moderately difficult prose and poetry, with constant practice in giving, sometimes orally and sometimes in writing, paraphrases, abstracts, or reproductions from memory of selected portions of the matter read; also grammatical drill upon the less usual strong verbs, the use of articles, cases, auxiliaries of all kinds, tenses and modes (with special reference to the infinitive and subjunctive), and likewise upon word-order and word-formation.

The intermediate course is supposed to be the elementary course, plus one year's work at the rate of not less than four recitations a week. Suitable reading matter for the third year can be selected from such works as the following: Ebner-Eschenbach's *Die Freiherren von Gemperlein*; Freytag's *Die Journalisten* and *Bilder aus der deutschen Vergangenheit*—for example, *Karl der Grosse*, *Aus den Kreuzzügen*, *Doktor Luther*, *Aus dem Staat Friedrichs des Grossen*; Fouqué's *Undine*; Gerstäcker's *Irrefahrten*; Goethe's *Hermann und Dorothea* and *Iphigenie*; Heine's poems and *Reisebilder*; Hoffmann's *Historische Erzählungen*; Lessing's *Minna von Barnhelm*; Meyer's *Gustav Adolfs Page*; Moser's *Der Bibliothekar*; Riehl's *Novellen*—for example, *Burg*

*Neideck, Der Fluch der Schönheit, Der stumme Ratsherr, Das Spielmannskind*; *Rosegger's Waldheimat*; *Schiller's Der Neffe als Onkel, Der Geisterseher, Wilhelm Tell, Die Jungfrau von Orleans, Das Lied von der Glocke, Balladen*; *Scheffel's Der Trompeter von Säckingen*; *Uhland's poems*; *Wildenbruch's Das edle Blut*.

### c. Advanced <sup>1</sup>

THE AIM OF THE INSTRUCTION.—At the end of the advanced course the student should be able to read, after brief inspection, any German literature of the last one hundred and fifty years that is free from any unusual textual difficulties, to put into German a passage of simple English prose, to answer in German questions relating to the lives and works of great writers studied, and to write in German a short, independent theme upon some assigned topic.

THE WORK TO BE DONE.—The work of the advanced course (last year) should comprise the reading of about 500 pages of good literature in prose and poetry, reference readings upon the lives and works of the great writers studied, the writing in German of numerous short themes upon assigned subjects, and independent translation of English into German.

### GREEK

#### Elementary (counting three points)

##### a. i. Greek Grammar.

The common forms, idioms, and constructions, and the general grammatical principles of Attic Greek prose.

##### ii. Greek Composition.

Translation into Greek of detached sentences to test the candidate's knowledge of grammatical constructions.

The examination in the two subjects immediately preceding will be based on the first two books of Xenophon's *Anabasis*.

##### b. Xenophon.

The first four books of the *Anabasis*.

##### c. Homer.

The first three books of the *Iliad* (omitting II, 494—end) and the constructions, poetical forms, and prosody of Homer's *Iliad*.

##### f. Advanced Greek Composition.

Translation into Greek of continuous prose based on Xenophon and other Attic prose of similar difficulty.

##### g. Sight Translation.

Translation into English at sight, based on prose of no greater difficulty than Xenophon's *Anabasis*.

#### Advanced (counting one point)

Candidates offering Greek as an advanced subject must present the equivalent of the course known as Greek B (see courses announced by

<sup>1</sup> Advanced German may be offered by candidates desiring to take advanced courses in German. It may not be counted among the points required for admission.

the Department of Greek). In Homer, for which no equivalent will ordinarily be accepted, the minimum requirement will be 1600 lines in addition to the amount offered for the elementary examination. The candidate must also offer the eight orations of Lysias in Morgan's edition, or an equivalent amount of similar Greek, and in prose composition at least twenty exercises in the writing of connected narrative prose. The exercises in Part III of Allinson's Greek Prose Composition will show the grade of preparation demanded. Candidates applying for examination in this subject must designate the equivalents, if any, which they wish to offer.

### HISTORY

#### Elementary (counting two points)

Candidates offering history as an elementary subject may present themselves for examination upon either of the following groups. They will not be permitted to offer both of these groups as elementary subjects.

##### First Group:

1. Ancient history, including a brief introductory study of the Oriental peoples and early mediæval history to the death of Charlemagne, with due reference to art, literature, and government.
2. Mediæval and modern history, with due reference to the growth of the state-system.

##### Second Group:

3. English history, with due reference to social and political development.
4. American history, with the elements of civil government.

NOTE.—For preparation in either of these groups a course of study equivalent to at least three lessons a week for two years will be needful. On examination a candidate must show such general knowledge of each field offered as may be acquired from the study of an accurate text-book of not less than three hundred pages. Since, however, the examination will be so framed as to require comparison and the use of judgment rather than mere exercise of memory on the part of the pupil, it is recommended that the teacher prescribe a course of supplementary reading of not less than five hundred pages dealing with the more important periods and events in both of the historical fields offered. Geographical knowledge will be tested by requiring the location of places and movements on an outline map.

#### Advanced (counting one point)

The requirement in Advanced History is intended to be an equivalent for History A—the course prescribed in Columbia College (see courses given by Department of History). The work done at school, therefore, should be substantially identical with that course. Those candidates who have taken the examination in Elementary History, and desire to offer History as an advanced subject, must present themselves for examination upon the historical fields included in *that group*

*which they did not offer as an elementary subject.* For example, if a candidate offers the first group as the elementary subject, he must offer the second group as the advanced subject, and *vice versa*. The examination will pre-suppose superior ability on the part of the candidate in Advanced History to understand the significance of historical events, movements, or tendencies, to discern similarities and contrasts, and to combine results.

As further evidence of proficiency, satisfactory written work, done at school and duly certified by the teacher as to independent preparation, must be submitted. This work must be presented in the form of a note-book, or bound collection of notes, containing not less than five thousand words on each historical field offered, and must show practice in at least three of the following exercises:

- (a) Notes and digests of reading outside of the text-books.
- (b) Written recitations requiring the use of judgment, and the application to new questions of knowledge already gained.
- (c) Written parallels between historical characters, events, or periods.
- (d) Brief studies of topics limited in scope, prepared outside the class-room and illustrated by some reference to contemporary material.
- (e) Historical maps or charts showing explorations, migrations, conquests, territorial changes, or social phenomena.

The written work must be sent to the Secretary of Columbia University two weeks before the entrance examination begins.

## LATIN

### Elementary (counting four points) <sup>1</sup>

#### a. i. Latin Grammar.

The inflections; the simpler rules for composition and derivation of words; syntax of cases and verbs; structure of the sentence in general, with particular regard to relative and conditional sentences, indirect discourse and the subjunctive.

#### ii. Latin Composition.

Translation into Latin of detached sentences and very easy, continuous prose based upon Cæsar and Cicero.

#### b. Cæsar.<sup>2</sup>

Any four books of the Gallic War, preferably the first four.

<sup>1</sup> Candidates for admission to Columbia College, Teachers College, the College of Physicians and Surgeons, or the Schools of Applied Science and Architecture, who are unable to offer the whole of Elementary Latin, will be permitted to offer two points from this subject. Such candidates should offer parts *a* and *c*, or *a* and *d*, except candidates for the College of Physicians and Surgeons, who should offer *a* and either *b* or *c* or *d*, as indicated above.

<sup>2</sup> Cæsar can be offered only by candidates for admission to the College of Physicians and Surgeons.



*c. Cicero.*

Any six orations from the following list, but preferably the first six mentioned:

The four orations against Catiline, Archias, and the Manilian Law, Marcellus, Roscius, Milo, Sestius, Ligarius, the Fourteenth Philippic.

*d. Vergil.*

The first books of the *Æneid* and so much of prosody as concerns accent, versification in general, and the dactylic hexameter.

*l. Advanced Latin Composition.*

Translation into Latin of continuous prose of moderate difficulty based on Cicero.

*m. Sight Translation.*

Translation into English at sight, based exclusively on prose of no greater difficulty than the easier parts of Cicero's orations.

### Advanced (counting one point)

Candidates offering Latin as an advanced subject must present the equivalent of the course known as Latin A (see courses announced by the Department of Latin). This course comprises the reading of Cicero's *De Senectute* and *De Amicitia*, a review of the syntax of the verb as contained in any standard grammar, and a knowledge of prose composition as represented by the second part of Daniells's *New Latin Composition*; also the reading of the first and third books of the *Odes* of Horace, with a satisfactory knowledge of the prosody.

Candidates applying for examination in this subject must designate the equivalents, if any, which they wish to offer.

### MATHEMATICS

#### Elementary (counting three points)

*a. i. Algebra to quadratics.*

Factors, common divisors, and multiples, fractions, equations of the first degree with one or more unknown quantities, evolution, the doctrine of exponents, radicals, radical equations reducible to equations of the first degree, and putting problems into equations.

*ii. Algebra from quadratics.*

Quadratic equations, equations with one or more unknown quantities that can be solved by the methods of quadratic equations, problems depending upon such equations, ratio and proportion, and the binomial theorem for positive entire exponents.

*c. Plane geometry.*

Plane geometry, including the solution of simple original exercises and numerical problems.

**Advanced (counting one point)****d. Solid geometry.**

Solid and spherical geometry, including the solution of simple original exercises and numerical problems.

**a. iii. Algebra.**

The arithmetical and geometrical progressions, the elementary treatment of permutations and combinations, and the use of four-place and five-place tables of logarithms.

**e. Plane trigonometry.**

The definitions and relations of the six trigonometrical functions as ratios, proof of important formulæ, theory of logarithms and use of tables, solution of right and oblique plane triangles.

**PHYSICS****Elementary (counting one point)**

The candidate's preparation in physics should include:

- a. The study of a standard text-book supplemented by the use of many varied numerical problems, to the end that the pupil may gain a comprehensive and connected view of the most important facts and laws in elementary physics.
- b. Instruction by lecture-table demonstrations, to be used mainly as a basis for questioning upon the general principles involved in the pupil's laboratory investigations.
- c. Individual laboratory work, comprising at least forty exercises distributed about as follows: mechanics 17, sound 3, heat 5, light 6, electricity 9.

A list of suitable experiments in physics is contained in the definitions of the requirements published by the College Entrance Examination Board and may be obtained upon application to the Secretary of the Board, Post-Office Sub-Station 84, New York, N. Y.

**LABORATORY NOTE-BOOK.**—Every candidate must present *at the time of his examination in physics* a note-book in which he has recorded the steps and the results of his laboratory experiments. A candidate who fails to present such a note-book cannot receive credit for the examination. Each note-book must contain an index of the experiments which it describes, and must be endorsed by the instructor, the endorsement being written in ink on the inside of the cover. The endorsement must in effect be as follows:

I certify that this note-book is a true and original record of experiments actually performed by .....  
 in the physical laboratory of ..... School  
 during the year 19 ....

Instructor in Physics.

**Advanced** (counting one point)

Candidates offering physics as an advanced subject must have studied physics for a full year after satisfactorily completing the elementary requirement. The work during this time must be devoted to a more thorough and extensive study of the subjects previously covered in a general way. Besides class-work, it must include at least sixty experiments actually performed in the laboratory by the candidate. A laboratory note-book must be submitted at the time of the examination. It must contain a certificate from the teacher that it is a true record of the candidate's work. It will be returned to the candidate upon subsequent application to the Secretary of the University.

**PHYSIOGRAPHY** (counting one point)

The candidate's preparation in physiography should include the study of one of the modern text-books by Davis, Tarr, Dryer, or Gilbert and Brigham, together with an approved laboratory and field course of at least forty exercises actually performed by the candidate.<sup>1</sup>

The candidate will be required to present at the time of his examination the original note-book in which he recorded, with dates, the steps and results of his laboratory exercises. This book, which should contain an index of subjects, must bear the endorsement of the teacher, certifying that it is a true record of the candidate's work.

**SPANISH** (counting two points)

**THE AIM OF THE INSTRUCTION.**—At the end of the course the pupil should be able to pronounce Spanish accurately, to read at sight easy Spanish prose, to put into Spanish simple English sentences taken from the language of everyday life, or based upon a portion of the Spanish text read, and to answer questions on the rudiments of the grammar, as defined below.

**THE WORK TO BE DONE.**—During the first year the work should comprise: (1) careful drill in pronunciation; (2) the rudiments of grammar, including the conjugation of the regular and the more common irregular verbs, the inflection of nouns, adjectives, and pronouns, and the elementary rules of syntax; (3) exercises containing illustrations of the principles of grammar; (4) the reading and accurate rendering into good English of from 100 to 175 duodecimo pages of graduated texts, with translation into Spanish of easy variations of the sentences read; (5) writing Spanish from dictation.

During the second year the work should comprise: (1) the reading of from 250 to 400 pages of modern prose from different authors; (2)

<sup>1</sup> For a more detailed statement of the requirement in physiography the reader is referred to the definitions of the requirements published by the College Entrance Examination Board, Post-Office Sub-Station 84, New York, N. Y.

practice in translating Spanish into English, and English variations of the text into Spanish; (3) continued study of the elements of grammar and syntax; (4) mastery of all but the rare irregular verb-forms and of the simpler uses of the moods and tenses; (5) writing Spanish from dictation.

Suitable texts for the second year are: Valera's *El pájaro verde*; Alarcón's *El final de Norma*, *El capitán Veneno*; Valdès's *José*; Galdós's *Doña Perfecta*; *Marianela*; Parde Isla's version of *Gil Blas*; Carrion and Aza's *Zaragüeta*.

#### ZOÖLOGY (counting one point)

In general, zoölogy is not recommended as an entrance subject unless the study has been preceded or accompanied by that of physics and chemistry, which form the most desirable groundwork for collegiate courses in biology. The entrance examination in zoölogy is designed to test, first, the candidate's practical acquaintance with the natural history, structure, and relationships of some of the leading types of animals, and, second, his knowledge of the more essential facts of physiology.

*Practical Zoölogy.* A practical examination on at least ten common animal types, and the presentation by the candidate of a laboratory note-book, certified by the teacher as evidence of a laboratory course actually performed. Examples of the types suggested are the frog, fish, mollusk, insects, crustaceans, annelid, starfish, hydroid (*Hydra*), and protozoan. In the examination less weight is laid on a knowledge of anatomical *minutiæ* than on the ability to recognize the specimen and its allies, to indicate its relationships, and to point out the leading features of its life-history, organization, and physiology.

*Elementary Physiology.* The nature of foods and their history in the body; the essential facts of digestion, absorption, circulation, secretion, excretion, and respiration; the motor, nervous, and sensory functions; and the structure of the various organs by which these operations are performed. Martin's *Human Body* (briefer course) forms a suitable basis for this work; but teachers are recommended as far as possible to correlate the physiology of man and the higher animals with that of the lower forms studied in the course on practical zoölogy.



## REGULATIONS FOR THE UNIVERSITY DEGREES

### Master of Arts and Doctor of Philosophy

1. Candidates for the degrees of Master of Arts and Doctor of Philosophy must hold a baccalaureate degree in arts, letters, philosophy, or science, or an engineering degree, or an equivalent of one of these from a foreign institution of learning.

Every candidate for a higher degree must present to the Dean of each school in which he intends to study satisfactory evidence that he is qualified for the studies he desires to undertake.

2. Candidates for the degrees of Master of Arts and Doctor of Philosophy must pursue their studies in residence for a minimum period of one and two years, respectively.<sup>1</sup> The year spent in study for the degree of Master of Arts is credited on account of the requirement for the degree of Doctor of Philosophy. Residence at other universities may be credited to a candidate. In certain cases and by special arrangement, time exclusively devoted to investigation in the field will be credited in partial fulfilment of the time required. The satisfactory completion, at not less than four Summer Sessions, of courses of instruction having in all a value of eight hours' work a week for one academic year will be accepted as fulfilling the minimum requirement of one year's University residence. No degree will be conferred upon any student who has not been in residence at Columbia University for at least one year.

3. Each student who declares himself a candidate for the degrees of Master of Arts and Doctor of Philosophy, or either of them, shall, immediately after registration, designate one principal or major subject and two subordinate or minor subjects.

Candidates are expected to devote at least one half of their time throughout their course of study to the major subject. In the case of laboratory courses this implies two days a week, or its equivalent, as determined by each department. Each minor subject is intended to occupy approximately one fourth of the time during one year for the degree of Master of Arts, and during two years for the degree of Doctor of Philosophy.

Minor subjects may not be changed except by permission of the Dean, to be given only on the written recommendation of the heads of the departments from which and to which the change is desired;

<sup>1</sup> In practice three years of study are usually necessary to obtain the degree of Doctor of Philosophy.

major subjects may not be changed except by a special vote of the Faculty in each case.

A candidate for the degree of Master of Arts or Doctor of Philosophy may, with the consent of the Dean of the Faculty concerned and of the professor in charge of his major subject, select both minor subjects within the same department, and may divide a minor subject, taking parts of two subjects germane to his major subject.

4. The subjects from which the candidate's selection must be made are:

#### UNDER THE FACULTY OF PHILOSOPHY

I. *Major Subjects* : 1. Philosophy; 2. psychology; 3. education; 4. linguistics; 5. comparative literature; 6. classical archæology and epigraphy; 7. Greek language and literature, and, incidentally, Grecian history; 8. Latin language and literature, and, incidentally, Roman history; and the following, *including in each case the study of both the language and the literature* : 9. English; 10. Germanic; 11. Romance; 12. Sanskrit (with Pali) and Iranian; 13. Semitic; 14. anthropology; 15. Chinese. Nos. 3, 5, 9, 10, 11, 12, 13, and 15 count each as the equivalent of a major and one minor subject

II. *Minor Subjects* : 1. Philosophy; 2. psychology; 3. logic; 4. education; 5. anthropology; 6. linguistics; 7. comparative literature; 8. Greek; 9. Greek archæology; 10. Latin; 11. Roman archæology; 12. Sanskrit; 13. Iranian; 14. English; 15. Anglo-Saxon; 16. Gothic; 17. Germanic philology; 18. German language and literature; 19. Scandinavian languages and literatures; 20. Romance philology; 21. French language and literature; 22. Spanish language and literature; 23. Italian language and literature; 24. Hebrew; 25. Arabic; 26. Assyrian; 27. Syriac; 28. Ethiopic; 29. Semitic epigraphy; 30. Turkish; 31. Armenian; 32. Chinese; 33. Coptic.

In his choice of subjects under this Faculty, the candidate is limited by the regulation that not more than two of the three subjects may be selected from those offered by any one department. A major subject will involve attendance at lectures and seminars amounting to four or more hours weekly; a minor subject will involve attendance of two or more hours weekly.

#### UNDER THE FACULTY OF POLITICAL SCIENCE

Group I.—History and political philosophy: 1. European history; 2. American history; 3. ancient history; 4. political philosophy.

Group II.—Public law and comparative jurisprudence: 1. Constitutional law; 2. international law; 3. administrative law; 4. comparative jurisprudence.

Group III.—Economics and social science: 1. Political economy and finance; 2. sociology and statistics.

In his choice of subjects under this Faculty, the candidate whose major subject lies within its jurisdiction is limited by the following rules:

A candidate for the degree of Doctor of Philosophy must select one minor subject within the group which includes his major subject.

A candidate for the degree of Master of Arts or Doctor of Philosophy must select one minor subject outside of the group which includes his major subject.

The choice of subjects must in every case be approved by the Dean.

To be recognized as a major subject for the degree of Master of Arts, the courses selected must aggregate at least two hours per week throughout the year, and must also include attendance at a seminar. For a minor subject for the degree of Master of Arts the attendance at a seminar is not required.

To be recognized as a minor subject for the degree of Doctor of Philosophy, courses must be taken, in addition to the requirements for a minor subject for the degree of Master of Arts, aggregating two hours weekly. All the courses and seminars offered in the major subject must be taken by the candidates for the degree of Doctor of Philosophy.

#### UNDER THE FACULTY OF PURE SCIENCE

1. Anatomy; 2. astronomy; 3. bacteriology; 4. botany; 5. chemistry; 6. geodesy; 7. geology; 8. lithology; 9. mathematics; 10. mechanics and electro-mechanics; 11. mineralogy; 12. palæontology; 13. physics; 14. physiology; 15. zoölogy; 16. physiological chemistry.

In his choice of subjects under this Faculty, the candidate is limited by the regulation that no two of the subjects selected may be in any one department, unless the consent of the Faculty thereto shall have first been obtained.

#### UNDER THE FACULTY OF APPLIED SCIENCE AND IN THE SCHOOL OF ARCHITECTURE

Mining; metallurgy; engineering (civil, mechanical, electrical, and sanitary); architecture; mechanics, and electro-mechanics.

The Faculty of Applied Science requires that at least one minor subject be taken under the Faculty of Pure Science.

A minor subject may be taken in the same department as the major, but no two minors may be taken in the same department, unless the consent of the Faculty thereto shall be first obtained.

5. Each student is given a registration book, to be obtained at the office of the Registrar, which shall be signed by the professor or instructor in charge of each course of instruction or investigation at the beginning and end of the course. This registration book is to be preserved by the student as evidence of courses attended, and shall be submitted to the Deans of the several Faculties at the end of each year, that the proper credit may be given for the courses attended, after which the registration book becomes the permanent property of the student.

6. (a) Students desiring to be examined for the degree of Master of Arts, Master of Laws, or Doctor of Philosophy shall make

application on or before April 1 of the academic year in which the examination is desired, on blanks provided by the University, to the Registrar of the University.

- (b) Immediately after April 1, the Registrar shall notify the Deans of the Faculties of Political Science, Philosophy, and Pure Science, of the names of students applying for examination for higher degrees in each of these three Faculties, together with the subjects in which the candidate offers himself for examination and the degree for which he is a candidate.
- (c) The examination shall be held under the authority and direction of the several Deans.
- (d) The results of such examinations shall be reported as soon as possible to the Registrar, who shall transmit to the Secretary of the University Council the record of each successful candidate for a degree, as soon as such record is complete.

7. Each candidate for the degree of Master of Arts shall present an essay on some topic previously approved by the professor in charge of his major subject. Before the candidate is admitted to examination the professor in charge of his major subject must have signified his approval of such essay. This essay must be presented not later than May 1 of the academic year in which the examination is to take place. The Faculty of Political Science requires this essay to be a paper read during the year before the seminar of which the candidate is a member.

When the essay has been approved, the candidate shall file with the Librarian of the University a legibly written or typewritten copy of it. This copy is to be written on firm, strong paper, eleven by eight and a half inches, and a space of one and a half inches on the inner margin must be left free from writing.

8. Each candidate for the degree of Doctor of Philosophy shall present a dissertation embodying the result of original investigation and research on some topic previously approved by the professor in charge of the candidate's major subject. When such dissertation has been approved by the said professor, it shall be printed by the candidate, under the direction of the Dean of the Faculty, and one hundred and fifty copies shall be delivered to the University, unless, for reasons of weight, a smaller number be accepted by special action of the University Council. On the title-page of every such dissertation shall be printed the words: "Submitted in partial fulfilment of the requirements for the Degree of Doctor of Philosophy, in the Faculty of ———, Columbia University."

Each dissertation shall contain upon its title-page the full name of the author; the full title of the dissertation; the year of imprint, and, if a reprint, the title, volume, and pagination of the publication from which it was reprinted; and there shall be printed and appended to each dissertation a statement of the educational institutions that the author has attended, and a list of the degrees and honors conferred upon him, as well as the titles of his previous publications.



All dissertations for the degree of Doctor of Philosophy must be submitted for approval not later than April 1 of the academic year in which examination is desired.

In case of excessive cost and delay in publishing a dissertation which has been approved by a department, and accepted for publication by a reputable journal or scientific or literary association, the degree of Doctor of Philosophy may be conferred before the publication is completed. The facts in every such case concerning the publication are to be certified to the University Council by the Faculty concerned.

In cases where advanced degrees are conferred before the copies of the dissertation are deposited with the Librarian, the diploma shall be withheld until such copies shall be received by the Librarian.

In the Faculties of Philosophy and Pure Science, the dissertation is not required to be printed until after the examination of the candidate.

In the Faculty of Political Science, the examination on the major and minor subjects and on languages, but not on the dissertation itself, may be held before the printed dissertation is submitted.

The Faculty of Pure Science requires the dissertation to be printed in the size and form of the *Annals* or the *Memoirs* of the New York Academy of Sciences, according to the nature of the subject. Final examination may be granted upon acceptance of the dissertation by the department concerned.

The Faculty of Applied Science requires the dissertation to be printed in the size and style of the School of Mines *Quarterly*, and delivered to the Faculty not later than May 1 of the academic year in which the examination is to take place.

9. Every candidate for the degree of Doctor of Philosophy must pass, besides such other examinations as the Faculty may require, an oral examination on all three subjects, and must defend his dissertation, in the presence of the entire Faculty, or of so many of its members as may desire or as may be designated by the Faculty to attend. The ability to read at sight French and German, to be certified in each case by the Dean of the Faculty concerned, is required by all the Faculties. The Faculty of Political Science also requires the ability to read Latin at sight; and candidates are examined on Latin, French, and German, as upon other subjects, in the presence of the Faculty.

In the Faculty of Philosophy, admission as a regular student or as a candidate for the degree of Master of Arts does not admit to candidacy for the degree of Doctor of Philosophy. Only those students are admitted to candidacy for the degree of Doctor of Philosophy who (1) are recommended for such candidacy by the heads of the departments in which their major and minor subjects of study lie; (2) are certified as to their ability to read French and German by the heads of those departments; (3) are certified as to their ability to read Latin by the head of that department; provided that students whose major subject is psychology, anthropology, or education, shall not be re-

quired to meet this test when it is certified by the professor in charge of their major subject that an ability to read Latin is not necessary for the proper prosecution of their researches.

10. Students holding college degrees, who shall have completed with marked distinction one of the regular courses in the School of Law, the School of Medicine, the School of Mines, the School of Chemistry, the School of Engineering, or the School of Architecture, may be recommended for the degree of Master of Arts; provided that in each case the candidate, while pursuing his professional course, shall have taken additional work, under the direction of the Faculty of Philosophy, the Faculty of Political Science, or the Faculty of Pure Science, to the extent of a minor subject, as recognized by the Faculty concerned, for not less than one academic year.

Every such candidate shall present an essay on some topic previously approved by the professor in charge of his minor subject. Before the candidate is admitted to examination the professor in charge of his minor subject must have signified his approval of such essay. This essay in all other respects shall conform to the requirements as stated in Section 7 of these regulations.

11. No student shall continue to be a candidate for the degree of Doctor of Philosophy for a longer period than three years from the time he ceases to be in residence.

### Master of Laws

1. Any student who has satisfactorily completed the regular course of study in Columbia College to the close of the junior year, or in some other college maintaining an equivalent curriculum (every such case of equivalency to be considered on its own merit), shall be entitled to be recommended for the degree of Master of Laws upon certificates from the Faculty of Law and the Faculty of Political Science that he has satisfactorily completed a four-years' course of study under said Faculties.

2. Every candidate for the degree of Master of Laws must elect from the subjects offered by said Faculties courses aggregating, in the four years, fifty-two hours per week, and must pass satisfactory examinations upon the subjects elected; provided that not more than thirty-four hours of work may be elected either in the field of private law, or in that of public law, social ethics, history, and economics.

3. Students, otherwise qualified, who have received the degree of Bachelor of Laws from this University after pursuing the full course of study, shall be entitled, upon pursuing for an additional year a course of study of at least thirteen hours per week, under either or both of said Faculties, and passing satisfactory examinations therein, to receive the degree of Master of Laws; provided that no student shall receive the degree who has not studied and passed satisfactory examinations in comparative constitutional law, administrative law, Roman law, inter-

national law, and in the three courses offered on equity,<sup>1</sup> and who has not pursued here, or elsewhere, courses of instruction satisfactory to the Faculty of Political Science in history, social ethics, and economics.

4. Each Faculty shall determine the order in which the subjects offered by it shall be taken, and the maximum amount of work to be done therein during any one year.

5. Students from other universities, colleges, or law schools, who shall have satisfactorily completed a course of study equivalent to at least one term of thirteen hours per week in the subjects indicated in Section 2, after receiving a bachelor's degree, may be excused from the corresponding number of terms of the four-years' residence required at Columbia; provided that in no case shall any one receive the degree of Master of Laws who has not spent at least four years in the study of the said subject in some university, college, or law school. The decision whether work at another institution shall be accepted as equivalent to work at Columbia shall rest, so far as the studies under the Faculty of Law are concerned, with the Faculty of Law, and, so far as the studies under the Faculty of Political Science are concerned, with the Faculty of Political Science; but neither Faculty shall admit a student from another university, college, or law school, to examination for the degree of Master of Laws without a residence of at least one year in this University.

<sup>1</sup> Under this provision students would be allowed, but not required, to take history of European law, conflicts of law, law of municipal corporations, and the law of taxation.

## COLUMBIA COLLEGE

The following departments are represented in the Faculty:

ASTRONOMY	LATIN
BOTANY	MATHEMATICS
CHEMISTRY	MECHANICS
COMPARATIVE LITERATURE	PHILOSOPHY AND PSYCHOLOGY
ENGLISH	PHYSICS
GEOLOGY	POLITICAL ECONOMY
GERMANIC LANGUAGES AND LITERATURES	ROMANCE LANGUAGES AND LITERATURES
GREEK	SEMITIC LANGUAGES
HISTORY	ZOOLOGY
INDO-IRANIAN LANGUAGES	

### Officers of the Faculty

#### *Ex-Officio Members of the University Council*

J. H. VAN AMRINGE, Ph.D., L.H.D., LL.D...	<i>Dean (term expires 1905)</i>
H. T. PECK, Ph.D., L.H.D.....	<i>Secretary</i>

### Standing Committees

#### COMMITTEE ON CURRICULUM AND

##### SCHEME OF ATTENDANCE

Professor Van Amringe, <i>Chairman</i>
" Perry
" Dunning
" R. S. Woodward
" Lord

#### COMMITTEE ON ADMISSIONS

Professor Thomas, <i>Chairman</i>
" Hallock
" McCrea
" Maclay
" Odell

#### COMMITTEE ON SCHOLARSHIPS

Professor Van Amringe, <i>Chairman</i>
" Peck
" Jackson

#### COMMITTEE ON HONORS

Professor Cohn, <i>Chairman</i>
" Kemp
" Fiske

### The Faculty

NICHOLAS MURRAY BUTLER, LL.D., *President and Professor of  
Philosophy and Education*

J. HOWARD VAN AMRINGE, Ph.D., L.H.D., LL.D.....	<i>Professor of Mathematics</i>
CHARLES F. CHANDLER, Ph.D., M.D., LL.D., Sc.D.....	<i>Professor of Chemistry</i>



- JOHN W. BURGESS, Ph.D., LL.D.....*Professor of Political Science  
and Constitutional Law*
- JOHN KROM REES, E.M., Ph.D.....*Professor of Astronomy*
- RICHARD J. H. GOTTHEIL, Ph.D.....*Professor of Rabbinical Literature  
and the Semitic Languages*
- EDWIN R. A. SELIGMAN, LL.B., Ph.D.....*Professor of Political  
Economy and Finance*
- H. T. PECK, Ph.D., L.H.D.....*Professor of the Latin Language and  
Literature, and Secretary*
- WILLIAM H. CARPENTER, Ph.D.....*Villard Professor of Germanic  
Philology*
- JAMES McKEEN CATTELL, Ph.D.....*Professor of Psychology*
- EDWARD DELAVAN PERRY, Ph.D.....*Jay Professor of the Greek  
Language and Literature*
- WILLIAM A. DUNNING, Ph.D.....*Professor of History*
- A. V. WILLIAMS JACKSON, L.H.D., Ph.D.....*Professor of Indo-  
Iranian Languages*
- ADOLPHE COHN, LL.B., A.M.....*Professor of the Romance Languages  
and Literatures*
- GEORGE EDWARD WOODBERRY, A.B.....*Professor of Comparative  
Literature*
- EDMUND B. WILSON, Ph.D., LL.D.....*Professor of Zoology*
- JAMES F. KEMP, E.M.....*Professor of Geology*
- WILLIAM HALLOCK, Ph.D.....*Professor of Physics*
- BRANDER MATTHEWS, D.C.L., Litt.D..*Professor of Dramatic Literature*
- ROBERT S. WOODWARD, C.E., Ph.D.....*Professor of Mechanics and  
Mathematical Physics*
- HENRY A. TODD, Ph.D.....*Professor of Romance Philology*
- GEORGE R. CARPENTER, A.B.....*Professor of Rhetoric and English  
Composition*
- THOMAS SCOTT FISKE, Ph.D.....*Professor of Mathematics*
- JAMES RIGNALL WHEELER, Ph.D.....*Professor of Greek*
- JAMES C. EGBERT, Jr., Ph.D.....*Professor of Roman Archæology  
and Epigraphy*
- CALVIN THOMAS, A.M.....*Professor of the Germanic Languages and  
Literatures*
- CARLO L. SPERANZA, A.M., B. ès L.....*Professor of Italian*
- LUCIEN M. UNDERWOOD, Ph.D.....*Professor of Botany*
- WILLIAM MILLIGAN SLOANE, Ph.D., LL.D.....*Seth Low Professor of  
History*
- CHARLES E. PELLEW, E.M.....*Adjunct Professor of Chemistry*
- HERBERT GARDINER LORD, A.M.....*Professor of Philosophy*
- NELSON GLENN MCCREA, Ph.D.....*Professor of Latin*
- CLARENCE H. YOUNG, Ph.D.....*Adjunct Professor of Greek*
- JAMES MACLAY, Ph.D.....*Adjunct Professor of Mathematics*
- GEORGE CLINTON DENSMORE ODELL, Ph.D.....*Adjunct Professor of  
English*

HENRY ROGERS SEAGER, Ph.D.....*Adjunct Professor of Political Economy*  
 FREDERICK J. E. WOODBRIDGE, A.M., LL.D....*Professor of Philosophy*  
 CASSIUS JACKSON KEYSER, Ph.D....*Adjunct Professor of Mathematics*  
 GEORGE L. MEYLAN, M.D....*Adjunct Professor of Physical Education*

## ADMISSION

The Committee on Admissions has charge of everything relating to this subject.

1. Candidates for admission to the freshman class, at its formation, must be at least fifteen years of age; and for admission to advanced standing there is required a corresponding increase of age; but this rule may be dispensed with when, in the opinion of the Committee on Admissions, there are sufficient reasons to justify its relaxation.

Every candidate must, before admission, present a certificate of good moral character from his last teacher, or from some citizen in good standing, and students from other institutions must bring certificates of honorable dismission.

## Requirements for Admission

2. Every candidate for admission to the freshman class is required at the entrance examinations (see page 192) to offer subjects amounting to fifteen points<sup>1</sup> as indicated below:

The candidate *must* offer

English (page 197).....	counting 3 points
Elementary Mathematics (page 206) ..	“ 3 “

The candidate may offer any of the following subjects without other restriction than that to offer an advanced subject will involve offering either at the same time or earlier the corresponding elementary subject.

Elementary Latin (page 205).....	counting 4 points <sup>2</sup>
Elementary Greek (page 203).....	“ 3 “
Elementary History (page 204).....	“ 2 “
Intermediate French (page 200).....	“ 1 point
Intermediate German (page 202).....	“ 1 “
Advanced Latin (page 206).....	“ 1 “
Advanced Greek (page 203).....	“ 1 “
Advanced History (page 204).....	“ 1 “
Advanced Mathematics (page 207)....	“ 1 “
Advanced Physics (page 208).....	“ 1 “

The candidate may offer not more than 4 points in all from the three subjects following:

<sup>1</sup> The several subjects are stated in terms of units: the unit is a course of five periods weekly throughout an academic year of the preparatory school; the subjects are assigned units in accordance with the time required to prepare adequately upon them for college entrance.

<sup>2</sup> Candidates may also offer a part of elementary Latin, counting it for two points (see page 205)

Elementary French (page 199).....	counting 2 points
Elementary German (page 201).....	“ 2 “
Spanish (page 208).....	“ 2 “

The candidate may offer not more than 2 points in all from the five subjects following:

Elementary Physics (page 207).....	counting 1 point
Chemistry (page 196).....	“ 1 “
Botany (page 195).....	“ 1 “
Physiography (page 208).....	“ 1 “
Zoölogy (page 209).....	“ 1 “

For information regarding the time and place at which entrance examinations are held, regulations regarding division of examinations, examinations outside of New York, application blank, and examination fee, see pages 192-194.

### Certificates in Lieu of Entrance Examinations

3. Columbia College accepts, in lieu of its entrance examinations, no credentials of any sort except the Regents' Academic Diploma<sup>1</sup> and the certificates of universities and colleges in good standing. These credentials are accepted only for the ground which they specifically cover.

All certificates offered in lieu of entrance examinations must be sent, to the chairman of the College Committee on Admissions at least one week before the first day of the entrance examinations. The names of those candidates whose certificates are accepted in whole or in part will be posted on the bulletin board at least one day in advance of the beginning of the examinations.

*The separate pass-cards, the Academic Equivalent Certificate, and the several other certificates issued by the Regents of the State of New York are not accepted by the College in lieu of examinations.*

*The certificates of the preparatory or high-school departments of universities and colleges are not accepted by the College.*

Candidates must take the regular entrance examinations in the subjects in which their certificates are not deemed adequate.

### Report of Entrance Examinations

4. The Committee on Admissions will report to the Dean, as soon as practicable after the conclusion of the entrance examinations in

<sup>1</sup> For 1903-04 every Regents' Academic Diploma is considered as covering the entrance requirement in English. No Regents' Academic Diploma will be accepted in lieu of the entrance examination in French unless it covers the complete two-years' high-school course in French recognized by the Regents. Similarly, no Regents' Academic Diploma will be accepted in lieu of the entrance examination in German unless it covers the complete two-years' high-school course in German. A Regents' Academic Diploma, to be accepted in lieu of all parts of the examination in Latin or of the examination in Greek, must specifically cover, among other things, sight reading and prose composition. In the case of the natural sciences, a Regents' Academic Diploma will not be accepted for the required laboratory work.

June, the names of those candidates who, having passed a satisfactory examination, may be admitted with or without conditions, of those who must present themselves for re-examination in September, and of those who have been rejected.

The Committee on Admissions will report to the Dean not later than one week after the conclusion of the entrance examinations in September the names of those candidates who, upon a final showing, may be admitted with or without conditions, and of those who have been rejected.

### Admission to Advanced Standing

5. Candidates for admission from other colleges, and those desiring to be admitted to advanced standing on examination, must make application in writing to the College Committee on Admissions. Proper blanks for the purpose may be obtained from the Secretary. The application should be made at least one week before the first day of the September entrance examinations.

Each candidate for admission to advanced standing must show that he has attained proficiency in the equivalent of

1. The requirements for admission to the freshman class.
2. All the prescribed studies already pursued by the class to which he seeks admission.
3. As many elective studies as he would have pursued if he had entered the class at the beginning of the freshman year.

A candidate may be admitted notwithstanding deficiencies in some of these studies, but no candidate will be recommended for the A.B. degree until he shall have brought all his studies up to the point required for that degree.

Each candidate from another college is expected to furnish official statements of his record in his various college studies, and letters or other evidence showing the opinion of his instructors in regard to his scholarship and character. He should also submit a catalogue or announcement of the college that he leaves, in which are plainly marked every requirement for admission and every course of instruction for which he has received credit.

No applicant will be allowed to enter the senior class as a candidate for the degree of Bachelor of Arts after October 15 in any year.

### Special Students

6. Special courses of study are offered by the College to young men, of proper age and character, who wish, without reference to any degree, to make a serious study of any subject or group of subjects. This provision, however, is not designed for students who would be unable, because of defective preparation, to secure admission to the freshman class. Candidates for admission as special students are required to present themselves at the entrance examinations and to fulfil the



requirements for admission to the freshman class (see p. 219). Applications for admission should be made at least one week before the first day of the entrance examinations. Proper blanks for this purpose may be obtained from the Secretary.

*Applications from men of maturity, who have been several years out of school or college and have had a valuable educative experience in practical life, will be considered on their merits as a class by themselves.*

7. Once admitted to the College, special students will be allowed to select their own courses of study subject to the general approval of the Dean, and to the particular approval, for each course selected, of the head of the department in which the course is given. The courses selected by a special student must, however, occupy at least ten hours a week.

In the courses which they severally pursue special students will be held to the observance of the same regulations as to attendance, examination, proficiency, and deficiency as regular students.

*Except for reasons of weight, satisfactory to the Committee on Admissions, no one will be received as a special student who is less than eighteen years of age, or who has, within ten months of the time of his application, been rejected as a regular student, or has, within that period, become deficient as a regular student. No one will be admitted as a special student who wishes merely to pursue elementary subjects included among the requirements for admission to the College or Schools of Applied Science.*

#### Entrance Conditions and Probation

8. Students admitted conditionally to the freshman class at the beginning of the academic year will be held under probation till the end of the first half-year.

Not later than Tuesday of the second week following the Christmas holidays, the head of each department in which students on probation attend will make to the Dean a special report of progress in the case of each such student. The Dean will, as soon as practicable, and not later than the end of the half-year, decide as to each student on probation, whether he shall be dropped from the roll of the College, or have his period of probation extended.

9. If any member of the freshman class shall receive at the mid-year or the concluding examination a grade in scholarship of C, or higher, in any department, this grade will be regarded as removing any entrance condition that may be recorded against him in that department.

Any member of the freshman class conditioned at entrance must make good by examination every condition that is not removed under the operation of the foregoing provision. He should present himself for this purpose at the entrance examinations in June or September of the year following his admission.

### Matriculation, Registration, and Enrolment (See page 21)

For the regulations prescribed for all students see page 21. The following regulations are also prescribed for students in the College:

10. Registration and enrolment at a later date than that specified in the general regulations are permitted to candidates who obtain the written consent of the Dean, satisfactory cause for the delay having been shown. Such permission, however, does not relieve the student from the payment of the late registration fee.

College students are cautioned against confusing the filing of elective blanks with registration. These are two distinct and separate processes.

Students who, by reason of any technicality, can not register definitely within the time limits, should file a tentative registration record on or before the last day of registration, if they wish to avoid the fine.

Credit for attendance will date from the opening of the academic year. All students will be held strictly accountable for absences incurred owing to enrolment at a later date, unless excused by the Dean.

### Fees

(See page 22)

### Scholarships

(See page 40)

### COURSE OF STUDY

11. Candidates for the degree of Bachelor of Arts are required to present courses making a total of sixty points. In connection with the announcement of each course is a statement of the number of hours per week of lectures and of laboratory work. The successful completion of each hour of lectures or recitations throughout an academic year counts as one point toward the sixty required for the degree of A.B. The successful completion of two hours of laboratory or other practical work counts as one point. Not less than twelve, nor more than eighteen, points may be presented in any one year without the consent of the Dean. No one-hour course, unless taken in connection with and as a supplement to a cognate course, will be allowed. To the end of his Junior year, a student must always pursue not fewer than three courses having a value of at least three points each. The required gymnasium work of the freshman and sophomore years must also be satisfactorily completed.

12. The courses necessary to meet the above requirement may be chosen by the student at will from the courses announced each year, subject to the restrictions named in connection with each course and to the general restriction that the following studies are prescribed:

## Prescribed Studies

*English:*

- English A, 3 hours, freshman year. }  
English B, 2 hours, sophomore year. }  
Prescribed for all students.

*Latin and Greek:*

- Latin A or B, or Greek B, 3 hours, freshman year.  
Prescribed for students who offer Elementary Latin and Greek, but not Advanced Latin or Greek, for admission.  
Latin A or B, 3 hours, freshman year.  
Prescribed for students who offer Elementary Latin, but not Greek or Advanced Latin for admission.  
Latin X, 5 hours, freshman year. }  
Latin Y, 3 hours, sophomore year. }  
Latin Z, 3 hours, junior year. }  
Prescribed for students who do not offer Elementary Latin for admission.

*French:*

- French A, 3 hours, freshman or sophomore year, as the Dean may permit or prescribe.  
Prescribed for students who do not offer Elementary French for admission.

*German:*

- German A, 3 hours, freshman or sophomore year, as the Dean may permit or prescribe.  
Prescribed for students who do not offer Elementary German for admission.

*Mathematics:*

- Mathematics A, 3 hours, freshman year.  
Prescribed for students who do not offer Advanced Mathematics for admission.

*History:*

- History A, 3 hours, sophomore year.  
Prescribed for students who do not offer Advanced History for admission.

*Psychology:*

- Psychology A, 3 hours, first half Junior year.  
Prescribed for all juniors.

*Economics:*

- Economics A, 3 hours, second half Junior year.  
Prescribed for all juniors.

*Natural Science:*

Physics 1, 3 hours; or Chemistry 1, 4 hours; or Botany 1, 3 hours. Prescribed for students who do not offer a natural science for admission; may be taken in any one of the four years.

*Physical Education:*

Certain work under this Department will be required of both freshmen and sophomores. The details will be found in the *Announcement of the Division of Physical Education for 1903-04*.

**Elective Studies**

13. In making out their list of electives, students are confined to the courses given as open to them in the departmental statements contained in the *Announcement of Columbia College*, except under the provisions of Sections 18-19 below. They must avoid conflicts of courses at the same hour, and for that purpose should consult the hour-scheme. They are advised to examine the several divisional announcements in which the statement of the scope of each course is given more fully than is possible in the *Announcement*, and further to consult the heads of departments during their office hours.

Students just entering must give notice, at the time of registration, of the elective courses chosen by them.

Students in the College are required, on or before Tuesday, September 1, to give notice to the Dean, through the Registrar, upon blanks to be procured at the office of the Registrar, of their choice of elective courses. Special attention is called to this requirement, in order to avoid confusion and possible embarrassment to the student.

14. Change of electives will be allowed by the Dean, for reasons of weight stated to him in writing, up to but not later than the fourth Saturday in October for the first term and the third Saturday in February for the second term.

15. No student may take more than four hours' work, not including laboratory work or drawing, on the same day, or more than six hours a week in any department, without the consent of the Dean.

16. The Dean and the head of the department concerned may permit any study prescribed for the degree of Bachelor of Arts to be taken as an elective in an earlier year than that for which it is set down.

17. Elective courses are offered subject to withdrawal if elected by fewer than three students.

18. By permission of the Dean of the College, the first-year course in the School of Medicine or the School of Law may be elected by members of the senior class who became students in the College not later than the beginning of their junior year. Any student taking the first-year course in the School of Medicine will be required to pay a fee of \$50 in addition to his fee as a student in the College.



The full first-year course in the School of Law and the full first-year course in the School of Medicine, for students of the Senior class taking either of them and counting the same towards the degree of Bachelor of Arts, are counted as fifteen points, and fifteen points only, towards that degree. Any student who elects either of these first-year courses, and is allowed to count the same towards the degree of Bachelor of Arts, shall be required to complete satisfactorily every study in the course elected before he can be recommended for the degree.

19. By permission of the Dean of the College, a student may elect in his junior or senior year certain technical or professional courses in the Schools of Applied Science and Architecture and in Teachers College. Each such course in the Schools of Applied Science requires an extra fee, the amount of which is stated in connection with the announcement of every such course, with the proviso that the sum of all such extra fees to be paid by any student in any one academic year shall not exceed \$50. The amount of each fee may be learned by consulting the Statement of Fees, p. 22.

#### GRADUATION THESES

20. Each candidate for graduation shall, with the advice and consent of the instructor in charge of one of the courses in which he has studied, or is studying, select for thesis, or essay, some subject connected with that course, and, on or before December 15, communicate his selection to the Dean for approval. Under such guidance and with such help as the instructor may deem it right to give him, he shall complete the thesis, or essay, and submit it to the Dean on or before April 2 of each year. This thesis, or essay, shall be judged by the head of the department in which the chosen subject lies; and the judgment shall be passed upon the merit of the thesis, or essay, both in its substance and in its style, and shall be reported in writing by the head of the department to the Dean. In his return to the Dean upon a graduation thesis the examining officer shall report:

1. A grade as to substance;
2. A grade as to style;
3. A grade as to its general merit.

Each thesis shall contain, as appendix, a list of authorities that have been used. It shall contain at least two thousand (2000) words, unless there be special reasons for reduced length; and it shall be retained as the property of the College, in charge of the Librarian.

If any student fail to comply with these requirements, or if his thesis, or essay, be rejected, he shall not be recommended to the Trustees for graduation.

The graduating theses must be written on firm, strong paper, eleven by eight and one half inches in dimensions; and a space of one and one half inches on the inner margin must be left free from writing.

## EXAMINATIONS IN COURSE

21. Two examinations of all the classes are held every year, one beginning on the last Monday but one of the first half-year (for 1904, January 18), and the other on the Monday of the third week preceding Commencement (for 1904, May 16). The former is called the mid-year examination; the latter the final examination. Any department may omit the mid-year examination in some or all of its courses for seniors, notice of such intended omission to be sent to the Dean on or before December 1 preceding. It is the privilege of any department to announce that, in some or all of its courses, the results of the mid-year examination will be tentative only, the grades given after the final examination applying to the whole year.

22. Any student who shall have been absent from more than ten per cent. of the exercises in any course during a single half-year shall not be entitled to examination in that course.

Every student is expected and required to keep an account of his absences, and, should he exceed the limit allowed in any course, he must present to the Dean, during the week preceding the stated examination, satisfactory explanation of all his absences, or be debarred from the examination.

23. The mid-year and final examinations provided for in section 21 are *stated examinations*. Delinquent examinations (see paragraph (a) below) and examinations held by special permission of the Dean are *special examinations*, the fee for each of which (except as noted in paragraph (d) of this section) is five dollars, which must be paid by the student before being admitted to the examination.

(a) Delinquent examinations, to enable deficient or debarred students of all classes to make good their deficiencies, are held within the two weeks immediately preceding the opening of the College in the Fall; and in addition, for members of the senior class only, during the first week in May.

(b) Except as provided for in paragraph (a), a student found deficient in any subject at a stated examination will not be allowed a special examination in that subject.

(c) Except as provided for in paragraph (a), a student absent from a stated examination in any subject will not be allowed a special examination in that subject, provided that, if the absence was due to unavoidable circumstances, the Dean may, on proper written certification to him of the circumstances, grant a special examination.

(d) If a student has special examinations in several subjects, either at the delinquent examinations or under one permit from the Dean specifying each subject, one fee of five dollars shall cover them all.

## Proficiency and Deficiency

24. At the close of every half-year, and after the stated examination has been held, each officer of instruction will report to the Dean a list

of all the students in his several courses, classifying them in five grades, namely, A, B, C, D, F, according as their work in the course has been excellent, good, fair, poor, or a failure. Each student's record, up to his senior year, will be transmitted to his parents by the Dean at the close of each half-year.

A student reported in grade F in any course, or a student absent from a mid-year or final examination in any course, will be accounted deficient in that course, and required to pass another examination in it at the time fixed for the examination of debarred and deficient students, unless, for reasons of weight, the Dean shall otherwise direct.

A student reported at the close of the first half-year in grade D in any course must be warned by the instructor in charge thereof that his work is so unsatisfactory that, unless improved, it may result in his being found deficient at the close of the second half-year.

A student reported in grade D in two or more courses may be required by the Dean to take the courses a second time or to substitute other courses.

No student may be advanced from the freshman to the sophomore class until he shall (a) have satisfied all the requirements for entrance, and (b) have not less than nine points to his credit.

No student may be advanced from the sophomore to the junior class until he shall have not less than twenty-four points to his credit.

No student may be advanced from the junior to the senior class until he shall (a) have completed the required gymnasium work, and (b) have accomplished all the studies of the course specifically required in the first three years, and (c) have not less than forty-five points to his credit.

25. For advancement under the foregoing sections, a student must be reported in a grade above D in the greater number of the courses giving him the requisite total of points; failing which he shall be dropped from the roll of his class, unless the Dean, for reasons of weight, shall otherwise determine. A student dropped from the roll of his class will not be permitted to attend any of the exercises of the said class without the consent of the Dean, given for reasons of weight; but he may enter the next succeeding class and pursue the course or courses in which his deficiency exists, or, in case of elective courses and with the consent of the Dean, other course or courses equivalent thereto in time, and present himself for examination in such course or courses with that class. No student dropped from the roll of his class under the provisions of this section will be accepted as a special student.

Should a student fail of advancement in two successive years, he shall be dropped from the roll of the College, unless, for reasons of weight, the Dean shall otherwise determine. No student dropped from the roll of the College under the provisions of this section will be accepted as a special student.

In all cases, the requirements for advancement from class to class must be satisfied before the beginning of the Academic year.

### General Honors

*General Honors* are of two grades, Highest General Honors and General Honors, and are assigned not later than July 1 of each year, without application, under the following conditions:

*Highest General Honors* are awarded to students whose work in the previous college year entitles them to high academic distinction.

*General Honors* are assigned to students of marked excellence who have not won Highest General Honors.

### Departmental Honors

Departmental Honors are awarded at the end of the second year, the end of the third year, and the end of the course, and are known respectively as Sophomore Honors, Junior Honors, and Final Honors.

Sophomore Honors are awarded in classics, Germanic languages and literatures, Romance languages and literatures, English, comparative literature, and in mathematics.

Junior Honors are awarded in classics, Germanic languages and literatures, Romance languages and literatures, English, comparative literature, mathematics, physics and chemistry, and in history.

Final Honors are awarded in classics, Germanic languages and literatures, Romance languages and literatures, English, comparative literature, mathematics, physics and chemistry, zoölogy and botany, history, economics and social science, and in philosophy.

(a) No scholarship, prize, or other honor will be awarded in any course or department to any student who is reported in a grade below C in any other course or department during the year in which he is a candidate for such scholarship, prize, or honor.

(b) Each student to whom honors may be awarded in any department will receive, at Commencement or as soon thereafter as practicable, a certificate of such award, under the seal of the College and bearing the signatures of the President and the Dean.

For particulars, see the special *Announcement of Columbia College*.

### Prizes

(See page 43)

### Honorable Dismission

An honorable discharge shall always be granted to any student in good standing who may desire to withdraw from the College; but no student under the age of twenty-one years shall be entitled to a discharge without the assent of his parent or guardian, given in writing to the Dean.

Students are requested, in case of withdrawal during the academic year, to file a notice thereof at the office of the Registrar, who will on application provide the blank form for this purpose.

For any further information the special *Announcement of Columbia College* may be consulted.



## REGISTER OF STUDENTS

### Columbia College

#### SENIOR CLASS

AERY, WILLIAM ANTHONY.....	(Q) New York City
ALLEN, CHARLES FLINT.....	Philadelphia, Pa.
BANNING, HUBERT.....	(Mhtn) New York City
BATES, WILLIAM STEPHEN.....	(Mhtn) New York City
BEHA, JOSEPH LOUIS.....	Constableville, N. Y.
BLAKE, CLINTON H.....	Englewood, N. J.
BLOOMFIELD, ALLEN J.....	Richfield Springs, N. Y.
BOVEY, JOHN MASTERS, JR.....	(Mhtn) New York City
BRACE, DONALD CLIFFORD.....	(Mhtn) New York City
BRYANT, WILLIAM SIDNEY, JR.....	Dallas, Texas
BULKLEY, HENRY DAGGETT.....	East Orange, N. J.
BURCHELL, DURWARD EARLE.....	Antwerp, N. Y.
BUTLER, HOWARD AUGUSTIN.....	(Mhtn) New York City
CARLSSON, CARL PONTIUS.....	(Mhtn) New York City
DARGEON, MICHAEL JOSEPH.....	(Mhtn) New York City
DAVIS, ABRAHAM MOSES.....	(Mhtn) New York City
ELGAR, HAROLD BENJAMIN.....	(Mhtn) New York City
ELGAS, HAROLD MORTIMER.....	(Mhtn) New York City
ELLIS, GEORGE ADAMS.....	Castleton, Vt.
FISH, SAMUEL CENTENNIAL.....	(Bklyn) New York City
FISHER, JOHN REDWOOD.....	Swiftwater, Pa.
FORBES, FRANCIS BONNER.....	(Mhtn) New York City
FOUCAR, FREDERICK HULTMAN.....	(Mhtn) New York City
FRIED, EDWARD S.....	(Mhtn) New York City
FUNK, MERTON LAYTON.....	(R) New York City
GAY, FRAZER WALKER.....	Newark, N. J.
GEER, ENOS THROOP.....	(Mhtn) New York City
GILLETT, LOUIS BLISS.....	(Mhtn) New York City
GOLDBERGER, NORMAN S.....	(Mhtn) New York City
GRAVENHORST, PAUL GERHARD.....	(Bklyn) New York City
GREENE, VAN RENSSELAER HOFF.....	(Mhtn) New York City
GUTMAN, ARTHUR S.....	(Mhtn) New York City
HAMMERSLOUGH, ROSSIN LEWIS.....	(Mhtn) New York City
HARCOURT, ALFRED.....	New Paltz, N. Y.
HAYES, CARLTON HUNTLEY.....	Afton, N. Y.
HEDINGER, JOHN HARRIS B.....	(Mhtn) New York City
HILL, EMORY.....	Scottsville, Va.
HOUSTON, OSCAR REMPEL.....	(Mhtn) New York City
INMAN, SAMUEL GUY.....	(Mhtn) New York City
JACOBS, WALTER A.....	(Mhtn) New York City
JACOBSTEIN, MEYER.....	Rochester, N. Y.
JOUARD, FAREL LOUIS.....	(Mhtn) New York City
KAHN, ALBERT LOUIS.....	(Mhtn) New York City
KILROE, EDWIN PATRICK.....	Jersey City, N. J.
KNAUFF, GRANT.....	(Q) New York City

KREUDER, HERMAN ERNST.....	(Mhtn) New York City
KRUSA, HENRY BISCHOFF.....	(Bklyn) New York City
LANCE, HAROLD B.....	Wilkesbarre, Pa.
LANGE, MOSES REUBEN.....	London, England
LAWTON, MAXWELL FRANCIS.....	(Bklyn) New York City
LEBER, OTTO H.....	Hoboken, N. J.
LINDSAY, JANVIER WHITTON.....	Washington, D. C.
LOENING, RUDOLPH RUBINO.....	(Mhtn) New York City
MCANENY, LEONARD GORDON.....	Jersey City, N. J.
MAEDER, JOHN SAMUEL.....	(Mhtn) New York City
MALMBERG, THEODORE JAMES WILLIAM.....	(Mhtn) New York City
MUNKER, MAURICE J.....	(Mhtn) New York City
MYERS, JAMES.....	(Mhtn) New York City
NEWBURGER, HARRY WILLIAM.....	New Albany, Ind.
OPPENHEIMER, EDGAR DAVIDSON.....	(Mhtn) New York City
OTTENBERG, IRVING.....	(Mhtn) New York City
OTTO, WALTER GUSTAV CARNES.....	Hoboken, N. J.
PITOU, EUGENE, JR.....	(Mhtn) New York City
PODALSKY, DAVID LOUIS.....	(Mhtn) New York City
ROBINSON, JAMES LATIMER.....	(Bklyn) New York City
SEGEL, OTTO FREDERICK.....	Jersey City, N. J.
SERVAGE, I. LESTER.....	Newark, N. J.
STAUFFEN, ERNEST, JR.....	(Mhtn) New York City
STEIN, HERBERT LEO.....	(Mhtn) New York City
SWORTFIGUER, HENRY BRAGDON.....	(Mhtn) New York City
TICE, WALTER ALVIN.....	(Mhtn) New York City
TROTTER, JAMES PATTEN.....	Yonkers, N. Y.
UPDIKE, EDWIN HOYT.....	(Mhtn) New York City
VAN DER BURGH, LUDLOW HOFFMANN.....	(Mhtn) New York City
VOGEL, EDWIN CHESTER.....	(Mhtn) New York City
WALZ, JACOB.....	(Mhtn) New York City
WARREN, ARTHUR DUDLEY.....	(Mhtn) New York City
WILE, UDO J.....	(Mhtn) New York City
WILSON, RANDOLPH COLCLOUGH.....	(Mhtn) New York City
Senior Class.....	79

The enrolment of the following in this class has been delayed (see College Announcement of 1903-04, section 32):

AKIN, ALBERT JOHN, II.....	(Mhtn) New York City
BOYSEN, BAYARD.....	(Mhtn) New York City
CARPENTER, WARWICK STEVENS.....	(Mhtn) New York City
EARLE, WILLIAM PITT STRIKER.....	(Mhtn) New York City
ELSWORTH, HAROLD JULIAN.....	Irvington-on-Hudson, N. Y.
HANEMANN, EDWARD LOUIS.....	(Mhtn) New York City
HARRIS, HERBERT HENRY.....	(Mhtn) New York City
HUGHES, DON EMANUEL.....	Olean, N. Y.
HURLEY, THOMAS LESTER.....	(Mhtn) New York City
KERR, ARTHUR THOMAS.....	El Paso, Texas
KNOX, JAXON.....	(Mhtn) New York City
LANDAUER, LEO LEVY.....	Natchez, Miss.
LYFORD, EDWARD BERT.....	Montclair, N. J.
MCDONALD, FRANK PETER.....	(Mhtn) New York City
MOELLER, PHILIP.....	(Mhtn) New York City
O'CONNELL, FRANK LEWIS.....	(Mhtn) New York City
PETTUS, WILLIAM BACON.....	Mobile, Ala.
RODMAN, BAYARD BLACKWELL.....	(Q) New York City
SCHARPS, CHARLES EDWARD TURNER.....	(Mhtn) New York City
SEYMOUR, JOHN COTES, JR.....	(Mhtn) New York City
SPECK, FRANK GOULDSMITH.....	Hackensack, N. J.

STEPHENSON, ALBERT GRANT.....	(Mhtn) New York City
STRAY, ARTHUR THOMAS.....	Ossining, N. Y.
THURBER, ALFRED EDWARD.....	Rutherford, N. J.
TOY, CHANNING RUST.....	Summit, N. J.
VAN NESS, SCHUYLER WALDRON.....	Newark, N. J.
VERPLANCK, JOHN BAYARD RODGERS.....	Fishkill-on-Hudson, N. Y.
WEISSMAN, CLARENCE.....	(Mhtn) New York City
WHITIN, ERNEST STAGG.....	(Mhtn) New York City
WILLCOX, JAMES ERNEST.....	Oxford, N. Y.
WUPPERMANN, RAPHAEL KUHNER.....	(Mhtn) New York City

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Total..... 110

## JUNIOR CLASS

ABELES, HARRY.....	(Mhtn) New York City
ALBERT, HERMAN WINFRED.....	Jersey City, N. J.
ANSPACHER, HARRY.....	(Mhtn) New York City
BACH, FRANK ALTON.....	(Mhtn) New York City
BARRICK, SAMUEL LLOYD.....	Jersey City, N. J.
BARROWS, WILLIAM BURNET.....	(R) New York City
BARTLETT, EDWARD EVERETT, JR.....	(Mhtn) New York City
BLAUVELT, MARTIN EMERSON.....	Yonkers, N. Y.
BRADLEY, ROBERT HOLMES.....	(Mhtn) New York City
BROWN-SERMAN, STANLEY.....	Raquette Lake, N. Y.
CAROLINE, HYMAN.....	(Mhtn) New York City
CLARK, THOMAS FAYETTE.....	(Mhtn) New York City
COHEN, NORMAN MONTEPIORE.....	(Mhtn) New York City
COOPER, FREDERICK LINN.....	(Mhtn) New York City
CURTIS, HARLOW DUNHAM.....	Manlius, N. Y.
CUTHEL, CHESTER WELDE.....	(Mhtn) New York City
DAY, MARSHALL MALLORY.....	(Mhtn) New York City
DONOVAN, WILLIAM JOSEPH.....	Buffalo, N. Y.
ECKERT, WHITNEY.....	Stamford, Conn.
FALION, GEORGE MARCUS.....	(Bklyn) New York City
FERRIS, MORRIS DOUW.....	(Mhtn) New York City
FITZGERALD, FRANK THOMAS, JR.....	(Mhtn) New York City
FLOWER, HERBERT JAMES.....	Passaic, N. J.
FRANK, JOSEPH JULIUS.....	(Mhtn) New York City
GOLDWATER, EDWARD.....	(Mhtn) New York City
GREEN, EDWARD HENRY.....	(Mhtn) New York City
GROSZMANN, WALDEMAR HEINRICH.....	(Mhtn) New York City
HAGEMAN, GEORGE RUSSELL.....	(Mhtn) New York City
HAMILTON, GUY AMSI.....	Geneva, Neb.
HARPER, HAROLD.....	(Mhtn) New York City
HARRISON, MEYER S.....	(Mhtn) New York City
HEALD, HARRY BRIGGS.....	(Mhtn) New York City
HEATON, JAMES PUTNAM.....	(Bklyn) New York City
HEUSER, CHARLES FREDERICK.....	Fandy, Utah
HIGBIE, JOHN ROBBINS.....	(Mhtn) New York City
HILL, GEORGE CORNELIUS.....	Mahopac Falls, N. Y.
HUBBARD, RALPH HUSTACE.....	(Mhtn) New York City
HYMAN, MAURICE.....	(Mhtn) New York City
JOSEPHS, IRVING SAMUEL.....	(Mhtn) New York City
KAYE, BENJAMIN MARK.....	(Mhtn) New York City
KLABER, WILLIAM.....	(Mhtn) New York City
KLEEBERG, GORDON SAUL PHILIP.....	(Mhtn) New York City
KLEIN, FREDERICK EDWARD.....	(Mhtn) New York City
LE ROY, ROBERT.....	(Mhtn) New York City

LEVY, BENJAMIN MORRIS.....	(Mhtn) New York City
LEWIS, ROBERT CARPENTER.....	Fargo, N. D.
LEWISOHN, JULIUS ARTHUR.....	(Mhtn) New York City
LONDON, MONTE.....	(Mhtn) New York City
LUBLIN, CURTIS.....	(Mhtn) New York City
McKENZIE, DAVID ANDREW.....	Newark, N. J.
McKINNEY, FRANCIS WILLIAM.....	Madison, N. J.
MEDALIE, GEORGE ZERDIN.....	(Mhtn) New York City
MESSER, WILLIAM STUART.....	Jersey City, N. J.
MITCHELL, WILLIAM JOHN.....	(Mhtn) New York City
MOONEY, HARRY RICH.....	(Mhtn) New York City
MORRIS, DUDLEY HENRY.....	(Mhtn) New York City
MOTT, WALTER WESLEY.....	(Mhtn) New York City
NEWELL, WILLIAM.....	Montclair, N. J.
NICHOLS, CLARENCE.....	Yonkers, N. Y.
NOBLE, FLOYD CLARKE.....	(Mhtn) New York City
OTTEN, LEONARD FLAGGE.....	(Mhtn) New York City
PIEL, WILLIAM F. J.....	(Bklyn) New York City
PIERREPONT, RUTHERFURD STUYVESANT.....	(Bklyn) New York City
RAMSDELL, EDWIN GEORGE.....	(Mhtn) New York City
ROBINSON, THEODORE GARDNER.....	(Mhtn) New York City
ROSENSON, HARRY JAMES.....	(Bklyn) New York City
ROTHSCHILD, WALTER L.....	(Mhtn) New York City
ST. GEORGE, ALBERT HARRINGTON.....	(Mhtn) New York City
SAPIR, EDWARD.....	(Mhtn) New York City
SCHLACHTER, CHARLES EMIL.....	(Mhtn) New York City
SCHMID, HERMAN FERDINAND.....	Geneva, N. Y.
SCHWED, HARRY.....	Somerville, N. J.
SIMONDS, WILLIAM BLOCKALL, JR.....	(Mhtn) New York City
SLOSSON, STEWARD.....	(Mhtn) New York City
SMITH, LESLIE BREWSTER.....	Mt. Vernon, N. Y.
STINER, PHILIP A.....	(Mhtn) New York City
TAYLOR, JAMES ALBERT.....	Utica, N. Y.
THOMAS, HAROLD LIVINGSTON REED.....	Highland Falls, N. Y.
THOMPSON, JACOB, JR.....	State Levee, Miss.
THURSTON, EDWARD DAY, JR.....	(Mhtn) New York City
TILT, WILLIAM AUGUSTUS.....	(Mhtn) New York City
TOLCHINSKY, JOSEPH.....	(Bklyn) New York City
TOMPKINS, GRENELLE BERTRAM.....	Paterson, N. J.
TONNELLE, JOHN LUNEAN, JR.....	(Mhtn) New York City
TOWNSEND, STILLMAN DANA.....	East Orange, N. J.
TREAT, HUGH PETERS.....	(Mhtn) New York City
TUCKER, GEORGE WASHINGTON, JR.....	(Bklyn) New York City
VAN BUREN, JOHN DASH, JR.....	(R) New York City
VAN NOSTRAND, NORMAN WYCKOFF.....	(Mhtn) New York City
VREELAND, LOUIS BEACH.....	Raleigh, N. C.
WALDRON, JAMES LAURENCE.....	(Bklyn) New York City
WALLACH, KAUFMAN RICHARD.....	(Mhtn) New York City
WEBB, HAROLD WORTHINGTON.....	Glen Ridge, N. J.
WEIL, JESSE.....	(Mhtn) New York City
WILLIS, ARTHUR LIVINGSTON.....	(Q) New York City
WIRÉN, OSCAR B.....	Minneapolis, Minn.
YOUNGER, GUSTAVUS ADOLPHUS.....	(R) New York City
ZEIGER, GEORGE VREELAND.....	Montclair, N. J.
ZEITLIN, JACOB.....	(Mhtn) New York City
Junior Class.....	99

The enrolment of the following in this class has been delayed (see College Announcement of 1903-04, section 32):



BATCHELOR, CHARLES BRONK.....	(Mhtn) New York City
BRITTAIN, ALEXANDER ALGEO.....	Hoboken, N. J.
BURNETT, HENRY LAWRENCE, Jr.....	(Mhtn) New York City
ELSBERG, ALBERT MARION.....	(Mhtn) New York City
KRAETZER, EDGAR RAYMOND.....	(Mhtn) New York City
LAMONT, JOSEPH RIGGS.....	(Bklyn) New York City
LONG, WILLIAM BAYARD.....	(Mhtn) New York City
MACKENZIE, ALEXANDER.....	Dobbs Ferry, N. Y.
PITT, GIRARD.....	New Rochelle, N. Y.
RIBLET, RONALD FRANK.....	(Mhtn) New York City
ROBINSON, JOSEPH PECK.....	Orange, N. J.
SPINGARN, SIEGMUND.....	(Mhtn) New York City
SPRAGUE, FRANKLIN KENNEDY.....	(Mhtn) New York City
WOOD, CHALMERS, JR.....	(Mhtn) New York City

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Total..... 113

## SOPHOMORE CLASS

ADAMS, RALPH ALLISON.....	(Mhtn) New York City
AMBERG, JOE LOUIS.....	(Mhtn) New York City
ASHFORTH, GEORGE.....	(Mhtn) New York City
BERNHEIM, JAMES BERWIN.....	San Antonio, Tex.
BERTINI, AMEDEO AUGUST.....	(Mhtn) New York City
BLOCH, SAMSON FRIED.....	(Mhtn) New York City
BLUMENSTIEL, ALBERT.....	(Mhtn) New York City
BOGUE, PERRY DAVID.....	(Bklyn) New York City
BOYLE, JOHN NEVILLE.....	(Mhtn) New York City
BRANDS, CARL.....	Paterson, N. J.
BROWN, FRANK CORNISH.....	(Mhtn) New York City
BRUCE, MURRAY.....	(Bklyn) New York City
BURNS, GRANT.....	(Mhtn) New York City
CASWELL, WILBUR LARREMORE.....	(Bklyn) New York City
CHAMBERS, FRANK WILLIAM.....	(Mhtn) New York City
CORN, BELMONT.....	(Mhtn) New York City
CORNELL, CHARLES FLOYD.....	(Q) New York City
DEIXEL, ABRAHAM.....	Newark, N. J.
DEMOREST, LOUIS.....	(Mhtn) New York City
DEVOE, WILLIAM BECK.....	(Mhtn) New York City
DICKLER, NATHAN NATHAN.....	(Bklyn) New York City
DOWNES, FLETCHER GARDNER.....	Jersey City, N. J.
EASTMAN, HENRY WESTERN.....	Roslyn, N. Y.
ECHEVERRIA, FREDERICK JOHN.....	(Mhtn) New York City
ECKSTEIN, HENRY JOSEPH.....	(Mhtn) New York City
EIMER, AUGUST OTTO.....	(Mhtn) New York City
ESSEX, WILLIAM LEOPOLD.....	Nyack, N. Y.
EVANS, JOHN HINMAN.....	Montclair, N. J.
FACKENTHAL, FRANK DIEHL.....	(Bklyn) New York City
FERRARI, ROBERT ANTHONY.....	(Mhtn) New York City
PONTRIER, MICCO MILTIADES ACHILLES.....	(Mhtn) New York City
FORD, WILLIAM ANDREWS.....	White Plains, N. Y.
FORSCH, SIDNEY.....	(Mhtn) New York City
FOWLER, ROBERT HENRY.....	(Mhtn) New York City
GEER, WILLIAM MONTAGUE, JR.....	(Mhtn) New York City
HANER, CARL, JR.....	(Mhtn) New York City
HASTINGS, HAROLD WILLIAM.....	(Mhtn) New York City
HEIMAN, HUGO.....	Little Rock, Ark.
HIRSCHBERG, STUART.....	Newburgh, N. Y.
HOSHINO, KEN.....	Tokyo, Japan

KAHN, MAX.....	(Mhtn) New York City
KAISER, GORDON HAYM.....	(Mhtn) New York City
KEBLER, FLOYD YATES.....	North Salem, N. Y.
KENDLER, JULIUS.....	(Mhtn) New York City
KOBBE, HERMAN.....	(Mhtn) New York City
KRAUSS, FLETCHER IRVIN.....	East Orange, N. J.
KREHBIEL, HERMAN VALENTINE, Jr.....	(Mhtn) New York City
LIPPMANN, FRANK BENEDICT.....	(Mhtn) New York City
MCCARTHY, THEODORE.....	(Mhtn) New York City
MCDONALD, EDWARD OSWALD WHITE.....	(Mhtn) New York City
MACDONALD, CHARLES DOUGLAS.....	(Mhtn) New York City
MARWICK, ROBERT HUGH.....	Petrolia, Ont.
MENDELSON, SAMUEL.....	(Mhtn) New York City
MOORE, GEORGE GELSTON, Jr.....	(Mhtn) New York City
MORRALL, CHARLES FRANCIS.....	Stafford Springs, Conn.
MYERS, ALFRED STUART.....	(Mhtn) New York City
NATHAN, ELI MORRIS.....	(Mhtn) New York City
PARDEE, HAROLD ENSIGN BENNETT.....	(Mhtn) New York City
PERRY, ROBERT MATSON.....	Denver, Col.
PETER, GEORGE WILLIAM.....	(Mhtn) New York City
PINCKNEY, THOMAS, Jr.....	Morristown, N. J.
POLLAK, WALTER HEILPRIN.....	(Mhtn) New York City
PORTER, WILLIAM REDFIELD.....	(Mhtn) New York City
POST, HENRY BURNET.....	(Mhtn) New York City
REJALL, ALFRED ERNST.....	(Bklyn) New York City
RICH, CARLETON WHEELER.....	(Mhtn) New York City
RICH, ENDICOTT GARDNER.....	(Mhtn) New York City
RICHTER, ROBERT MONTGOMERY.....	(Mhtn) New York City
SCHARF, WILLIAM WILLCOX.....	(Bklyn) New York City
SCHIFFMAN, SAMUEL.....	(Mhtn) New York City
SCOTT, EARLE.....	(Q) New York City
SICHEL, WALTER.....	(Mhtn) New York City
SILBERSTEIN, NATHAN.....	(Mhtn) New York City
SLOANE, CHARLES O'CONOR.....	South Orange, N. J.
SOLOMON, WALTER LEO.....	(Mhtn) New York City
SPENCE, KENNETH MONROE.....	(Mhtn) New York City
STEINER, STANLEY HAROLD.....	(Mhtn) New York City
STEWART, CHARLES ARTHUR.....	(Mhtn) New York City
STURGES, HENRY PEMBERTON.....	(Mhtn) New York City
THOMAS, HAROLD ALLEN.....	(Mhtn) New York City
THURLOW, JOHN NORTHRUP.....	(Bklyn) New York City
WEBB, KENNETH SEYMOUR.....	(Mhtn) New York City
WELLES, FRANK CORDAY.....	East Orange, N. J.
WIEMANN, ALBERT BERNARD.....	(Mhtn) New York City
WILLIAMS, CHARLES LAIDLAW.....	East Orange, N. J.
WOLVEN, RAYMOND LEE.....	Bloomfield, N. J.
WORZEL, HOWARD HENRY.....	(Bklyn) New York City
WRIGHT, ERNEST HUNTER.....	(Mhtn) New York City
Sophomore Class.....	88

The enrolment of the following in the class has been delayed (see College Announcement of 1903-04, section 32):

BANGS, HENRY MCCOMB.....	(Mhtn) New York City
BAUM, PHILIP.....	(Mhtn) New York City
BENTON, NELSON KINGSBURY.....	East Orange, N. J.
BOISSE, JACQUES LOUIS.....	(Mhtn) New York City
BRENNAN, WALTER JOSEPH.....	(Mhtn) New York City
BULKLEY, KENNETH.....	(Mhtn) New York City

DENZER, BERNARD SOLOMON.....	New Rochelle, N. Y.
EASTON, KERNER.....	(Mhtn) New York City
GAUTERT, CARLETON PALMER.....	(Mhtn) New York City
GORDON, CLARENCE THAYER.....	(Mhtn) New York City
GREEFF, GERHARD ERNEST HUGH.....	(Mhtn) New York City
HECKER, JOHN McKEON.....	(Mhtn) New York City
HOLLISTER, SAMUEL THOMSON.....	(Mhtn) New York City
ISAACS, SAMUEL.....	(Mhtn) New York City
LEVENTRITT, LEO LITHAUER.....	(Mhtn) New York City
MACBETH, ROBERT WALKER.....	(Bklyn) New York City
MAYNARD, EDWIN TAYLOR.....	(Bklyn) New York City
MILLER, ELMER CRAVER.....	Glen Ridge, N. J.
O'CONNELL, EDWARD JOSEPH.....	(Bklyn) New York City
ROSENTHAL, LEO ALFRED.....	(Mhtn) New York City
SEME, PIXLEY KA ISAKA.....	Natal, So. Africa
STREETER, PAUL COOLIDGE.....	(Mhtn) New York City
TRIPP, PERCY BLACKFORD.....	Falls Church, Va.
WRONKER, BENNO MAURICE.....	(Mhtn) New York City

24

Total..... 112

## FRESHMAN CLASS

ALEXANDER, ELLIOT RITCHIE.....	(Bklyn) New York City
AMOS, WALDO ADAMS.....	Jersey City, N. J.
APLINGTON, HORACE THURBER.....	(Mhtn) New York City
AUERBACH, GEORGE SAMUEL.....	(Mhtn) New York City
AUERBACH, IRVIN HAROLD.....	(Mhtn) New York City
BAEHR, GEORGE.....	(Mhtn) New York City
BAILLY, EDWARD CASHMAN.....	(Br) New York City
BANGSER, ADOLPH.....	Lebanon, Pa.
BELL, HAROLD KENNEDY.....	(Q) New York City
BERKOWITZ, LOUIS.....	(Mhtn) New York City
BETJEMANN, HENRY CARL.....	(Mhtn) New York City
BIERMAN, HENRY.....	(Mhtn) New York City
BLECHMAN, JOSEPH PETER.....	(Mhtn) New York City
BLUM, JULIUS.....	(Mhtn) New York City
BOLLES, FREDERICK NATHAN.....	Newark, N. J.
BONDY, EUGENE LYONS.....	(Mhtn) New York City
BRADLEY, EDWARD FRANCIS.....	Waterbury, Conn.
BRANDAU, GEORGE JULIUS.....	(Bklyn) New York City
BRODIX, CHARLES RAYMOND, JR.....	(Mhtn) New York City
BUCHDAHL, MILTON GLADSTONE.....	Mechanicsville, N. Y.
BUTTRICK, PAUL ALLEN.....	(Mhtn) New York City
CARPENTER, WILLIAM MORGAN.....	(Mhtn) New York City
CARR, HARRY CHILES, JR.....	St. Louis, Mo.
CHAPIN, HENRY EAGLE.....	(R) New York City
CHELIMER, HARRY JOSHUA.....	(Mhtn) New York City
CLARK, LLOYD HOUGHTON.....	Savannah, N. Y.
COHEN, ABRAHAM BRODERICK.....	(Bklyn) New York City
COLLINS, EDWARD T.....	Tarrytown, N. Y.
COLLINS, KENNETH BENEDICT.....	(Mhtn) New York City
COMSTOCK, GEORGE FREDERICK.....	(Mhtn) New York City
CONRIED, RICHARD.....	(Mhtn) New York City
CONY, ROBERT J.....	Weehawken, N. J.
COWEN, ARTHUR RALPH.....	(Mhtn) New York City
CROSBY, WILLIAM.....	New Rochelle, N. Y.
DEMAREST, IRVING COMES.....	Hackensack, N. J.
DICKEY, FRANK ALEXANDER.....	(Mhtn) New York City

DOX, RALPH WATSON.....	(Mhtn) New York City
DRUBITZ, MICHAEL.....	(Mhtn) New York City
EDELSTEIN, ELIAS ALEXANDER.....	(Mhtn) New York City
FISCHER, EMIL EMANUEL.....	(Mhtn) New York City
FLANIGAN, WILLIAM ADAMS.....	(Mhtn) New York City
FORSCH, HERBERT.....	(Mhtn) New York City
GORDON, PERCY ADOLPHUS.....	Guttenberg, N. J.
HAIGHT, JOHN MCVICKAR.....	Garrison-on-Hudson, N. Y.
HALL, FRANK CLARK.....	Virginia City, Mont.
HARRIS, WILLIAM, JR.....	(Mhtn) New York City
HASKELL, ROBERT HENRY.....	Portland, Me.
HAWES, LEWIS FRENCH STEARNS.....	New Rochelle, N. Y.
HAWKINS, WARNER MASON.....	(Mhtn) New York City
HELLENBERG, LAWRENCE HERMAN.....	(Mhtn) New York City
HENES, EDWIN, JR.....	(Mhtn) New York City
HERZBERG, MAX JOHN.....	Newark, N. J.
HETHERINGTON, FERRIS SANDS.....	(Mhtn) New York City
HOPKINS, FRANK LOUISE.....	Yonkers, N. Y.
HOPPING, ALLEN TILTON.....	(Mhtn) New York City
JABINE, WILLIAM.....	Yonkers, N. Y.
JACKSON, CHARLES FREDERICK HAVEMEYER.....	(Br) New York City
JOSEPH, DAVID HERMAN.....	Louisville, Ky.
KELLEY, WALTER EDWARD.....	(Mhtn) New York City
KIRK, EDWIN.....	(Mhtn) New York City
KNIGHT, WILLIAM D.....	Waterloo, N. Y.
KOHLBERG, HERBERT SIDNEY.....	El Paso, Tex.
LEVY, ARTHUR SAUL, JR.....	(Mhtn) New York City
LEWINE, HIRAM SIDNEY.....	(Mhtn) New York City
LIEBLER, THEODORE AUGUST, JR.....	(Mhtn) New York City
LINABERRY, FREDERICK RALPH.....	Chenango Forks, N. Y.
LUKENS, EDWARD FRENCH.....	Fort Wayne, Ind.
McKINLAY, CHARLES MILES.....	Tenafly, N. J.
MARCUS, CHARLES.....	(Mhtn) New York City
MARCUS, MENDEL VICTOR.....	Olean, N. Y.
MARTLAND, RALPH BUCKLISH.....	Newark, N. J.
MAYES, ALBERT EDWARD.....	(Mhtn) New York City
MILLER, CHARLES EDWARD.....	Jersey City, N. J.
MILLER, ROBERT.....	(Mhtn) New York City
MILLER, WILLIAM TRAVIS.....	Peekskill, N. Y.
MITCHELL, CORNELIUS VON ERDEN.....	(Mhtn) New York City
MOORE, RALPH CHARLES BELCHER.....	Chatham, N. J.
NATHAN, CLAUDE.....	(Mhtn) New York City
NORRIS, GEORGE.....	(Bklyn) New York City
PALMER, WILLIAM GRANT.....	(Mhtn) New York City
PEISER, DELWYN WALTER.....	(Mhtn) New York City
PERRINE, HAROLD.....	(Mhtn) New York City
PIERREPONT, SETH LOW.....	(Bklyn) New York City
PORTER, EDWARD EVELYN.....	(Mhtn) New York City
PRICE, CHARLES ROYAL.....	Morgan Park, Ill.
RANDOLPH, FREDERIC COZZENS FITZ.....	(Mhtn) New York City
RAPHAEL, ANGUS MATTHEWS.....	(Mhtn) New York City
REANEY, GEORGE HUMES.....	(Mhtn) New York City
REGES, CHARLES HENRY.....	(Q) New York City
RICHTER, STANLEY LASKER.....	(Mhtn) New York City
SCHERMERHORN, JOHN EGMONT, JR.....	(Mhtn) New York City
SCHNEIDER, JACOB.....	Orange, N. J.
SCHWARZ, WALTER MAX.....	(Mhtn) New York City
SHAPIRO, REUBEN.....	Cleveland, Ohio
SLOANE, EDWARD PARNELL.....	



SNYDER, THOMAS ELLIOTT.....	(Mhtn)	New York City
SOLOMON, MICHAEL.....	(Mhtn)	New York City
SPENCER, CHARLES B.....	(Br)	New York City
SPITZ, EDWARD FREDERICK.....	(Bklyn)	New York City
STEINFELD, ALBERT.....	(Mhtn)	New York City
STERN, MORTON F.....		Albany, N. Y.
SUSSDORFF, LOUIS A., Jr.....	(Q)	New York City
SWORDS, ALBERT TWOMBLY.....	(Br)	New York City
TACHNA, MAX.....	(Mhtn)	New York City
TAYLOR, JOHN HENRY.....	(Mhtn)	New York City
VEHSLAGE, HAROLD EDWIN.....	(Mhtn)	New York City
WEBB, CAROLUS R.....		Hoboken, N. J.
WECHSLER, LAWRENCE ALBERT.....	(Mhtn)	New York City
WEIL, PERCIVAL LEOPOLD.....	(Mhtn)	New York City
WEISMAN, JAY JEROME.....	(Br)	New York City
WHITWELL, CUTLER BONESTELL.....	(Mhtn)	New York City
WICKE, CARL.....	(Mhtn)	New York City
WOLF, LEONARD JAMES.....	(Mhtn)	New York City
WORMSER, ISAAC MAURICE.....	(Mhtn)	New York City
WUPPERMANN, CARLOS SUGERL.....	(Mhtn)	New York City
YOUNG, LEIGH JARVIS.....		Kirkwood, Mo.
ZILVER, LOUIS.....	(Bklyn)	New York City
ZONS, FREDERICK WILLIAM.....	(Q)	New York City
Total.....		118

## SPECIAL STUDENTS

*Unclassified Candidates for a Degree*

BARRIE, CASWELL.....	(Mhtn)	New York City
BRIDGEMAN, LINDEN WENTZEL.....	(Q)	New York City
BRODIX, JOHN WEEDMAN.....	(Mhtn)	New York City
BROWNE, DUNCAN HODGE.....	(Mhtn)	New York City
CLARKE, HARRY EDWARD.....	(Mhtn)	New York City
DECKER, WINFRED CORNWALL.....		Susquehanna, Pa.
EINSTEIN, GEORGE A.....	(Mhtn)	New York City
FERREIRA, LE ROY ELMER.....		Newark, N. J.
GOODLATTE, ROBERT KIP RICHARDSON.....		Passaic, N. J.
HASELL, MASON CRUGER.....	(Mhtn)	New York City
HURLEY, MARCUS LATIMER.....	(Mhtn)	New York City
KEHRLEIN, EMIL VALENTINE, Jr.....		San Francisco, Cal.
KELLEY, ROBERT HENRY.....		Tuckahoe, N. Y.
KOHLBERG, WALTER LIONEL.....		El Paso, Tex.
LONG, MILTON CLYDE.....		Springfield, Mass.
ROLLINS, ADOLPH CHRISTIE.....	(Bklyn)	New York City
SELIG, SAMSON.....	(Mhtn)	New York City
SHAPLEIGH, NORWALD.....	(Mhtn)	Nkw York City
SUTTER, MILTON V.....		New Rochelle, N. Y.
VEIT, ARTHUR STOBO.....	(Mhtn)	New York City
WAGSTAFF, ALFRED, Jr.....		Babylon, N. Y.
WOODARD, CLIFFORD AMBROSE.....		New Rochelle, N. Y.
YBOR, EDWARD RAFAEL MARTINEZ.....	(Mhtn)	New York City

*Irregular Students*

BORGWALD, CARL.....		Mt. Vernon, N. Y.
CURTIS, ROBERT W.....	(Mhtn)	New York City
DAVIS, JOHN ALFRED.....		Auburn, N. Y..
DAY, HAROLD CURRIER.....	(Mhtn)	New York City
DUNCAN, WILLIAM HENRY, Jr.....	(Bklyn)	New York City

ERTZ, CHARLES COLERIDGE.....	(Mhtn) New York City
GOLDEN, ASHER.....	(Mhtn) New York City
GOLDSTEIN, WALTER.....	(Mhtn) New York City
HAHN, EDGAR A.....	Cleveland, Ohio
JOHNSON, HERBERT.....	(Mhtn) New York City
KENT, ROCKWELL.....	Tarrytown, N. Y.
MAY, CHARLES ALFRED.....	(Bklyn) New York City
MILLS, WALTER SANDS.....	(Mhtn) New York City
MOKREJS, JOHN.....	Cedar Rapids, Ia.
NEIDLINGER, WILLIAM.....	(Mhtn) New York City
SPENCER, LORILLARD, JR.....	Newport, R. I.
WALTHER, JOHN WOODWARD.....	(Q) New York City
WEHN, EARLE ALBERT.....	Beatrice, Neb.
WITTGENSTEIN, VICTOR H.....	(Mhtn) New York City
Special Students.....	42

## SUMMARY

Senior Class.....	110
Junior Class.....	113
Sophomore Class.....	112
Freshman Class.....	118
Special Students.....	42
Total.....	495

## SCHOOL OF LAW

### OFFICERS OF INSTRUCTION AND GOVERNMENT

#### Officers of the Faculty

- GEORGE W. KIRCHWEY, A.B....*Dean (term expires 1905) and ex-officio*  
*Member of the University Council*  
HENRY S. REDFIELD, LL.D.....*Secretary*  
FRANCIS M. BURDICK, LL.D..*Elected Delegate to the University Council*

#### The Faculty

- NICHOLAS MURRAY BUTLER, Ph.D., LL.D., *President*  
FRANCIS M. BURDICK, LL.D.....*Dwight Professor of Law*  
GEORGE W. KIRCHWEY, A.B.....*Kent Professor of Law*  
GEORGE F. CANFIELD, A.B., LL.B.....*Professor of Law*  
HENRY S. REDFIELD, A.M., LL.D.....*Professor of Law*  
CHARLES T. TERRY, A.B., LL.B.....*Professor of Law*  
HARLAN F. STONE, A.M., LL.B.....*Adjunct Professor of Law*  
JAMES B. SCOTT, A.M., J.U.D.....*Professor of Law*

#### Other Officers

- ALFRED HAYES, Jr., A.B., LL.B.....*Tutor*  
JOHN D. KAPS, LL.B.....*Tutor*  
FRANCIS C. HUNTINGTON, A.B., LL.B.....*Lecturer*  
JACKSON E. REYNOLDS, A.B., LL.B.....*Lecturer*

#### From the Faculty of Political Science

- JOHN W. BURGESS, Ph.D., LL.D....*Professor of Political Science and*  
*Constitutional Law*  
MUNROE SMITH, A.M., J.U.D.....*Professor of Roman Law and*  
*Comparative Jurisprudence*  
FRANK J. GOODNOW, LL.D.....*Professor of Administrative Law*  
JOHN B. MOORE, LL.D.....*Hamilton Fish Professor of International*  
*Law and Diplomacy*

### PURPOSES OF THE SCHOOL

The design of the School of Law is to afford a thorough, practical, and scientific education in the principles of the law, as follows:

First.—The COMMON and STATUTE LAW of the UNITED STATES.

Second.—The ENGLISH and AMERICAN SYSTEM of EQUITY JURISDICTION.

Third.—The PUBLIC LAW of the UNITED STATES and EUROPE.

Fourth.—The ROMAN LAW—ANCIENT AND MODERN.

Fifth.—THEORETICAL and COMPARATIVE JURISPRUDENCE.

## COURSES OF INSTRUCTION

### First Year

CONTRACTS—Keener's Cases on Contracts. 4 hours. Professor TERRY

<sup>1</sup> CRIMINAL LAW—Beale's Cases on Criminal Law. 2 hours. Professor STONE

EQUITY—Origin and Nature, Bills of Peace, Interpleader, Quia Timet, Removal of Cloud upon Title, Jurisdiction over Torts; Keener's Cases on Equity, Vol. 1.—3 hours, second half-year. Professor SCOTT

PLEADING AND PRACTICE—Organization and Functions of Courts, Common Law Pleading, Actions and Limitations; Ames's Cases on Common Law Pleading; Perry on Common Law Pleading; Redfield's Cases on Code Pleading and Practice. 2 hours. Professor REDFIELD

REAL AND PERSONAL PROPERTY—Tenures, Estates, Nature and Incidents of Ownership, Conveyancing, Landlord and Tenant; Kirchwey's Readings in Real Property; Gray's Cases on Property, Vol. 1. 2 hours. Professor KIRCHWEY

TORTS—Burdick's Cases on Torts; Pollock on Torts. 2 hours. Professor BURDICK

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<sup>1</sup> AMERICAN CONSTITUTIONAL LAW IN ITS HISTORICAL DEVELOPMENT. 2 hours. Professor BURGESS

### Second Year

ADMIRALTY—Ames's Cases on Admiralty. 2 hours, second half-year. Professor SCOTT. *Not given in 1903-04*

AGENCY—Wambaugh's Cases on Agency. 2 hours. Mr. REYNOLDS

BAILMENTS AND CARRIERS—McClain's Cases on Carriers; Beale and Wyman's Cases on Public Service Companies. 2 hours. Mr. REYNOLDS

DOMESTIC RELATIONS—Smith's Law of Persons. 2 hours, first half-year. Mr. HAYES. *Not given in 1903-04*

EQUITY—Trusts; Ames's Cases on Trusts. 2 hours. Professor STONE

INSURANCE—Richards on Insurance. 2 hours, second half-year. Professor BURDICK

<sup>1</sup> The student may elect between Criminal Law and American Constitutional Law



NEGOTIABLE PAPER—Ames's Cases on Bills and Notes. 2 hours. Professor CANFIELD

PLEADING AND PRACTICE—Equity Pleading, Code Pleading and Practice; Thompson's Cases on Equity Pleading and Practice; Redfield's Cases on Code Pleading and Practice. 2 hours. Professor REDFIELD

QUASI-CONTRACTS—Keener's Cases on Quasi-Contracts. 3 hours, first half-year. Professor SCOTT

REAL AND PERSONAL PROPERTY—Easements, Covenants affecting Land, Watercourses, Public Rights, etc.; Gray's Cases on Property, Vols. 2 and 3. 2 hours. Professor KIRCHWEY

SALES OF PERSONAL PROPERTY—Burdick's Cases on Sales (2d ed.); Burdick on Sales (2d ed.). 2 hours. Professor BURDICK

ADMINISTRATIVE LAW, (a) of the United States and Europe. 2 hours, first half-year. Professor GOODNOW

ADMINISTRATIVE LAW, (b) Law of Officers, Extraordinary Legal Remedies—Mandamus, Quo Warranto, Certiorari, Habeas Corpus, etc. 2 hours, second half-year. Professor GOODNOW

COMPARATIVE CONSTITUTIONAL LAW. 2 hours. Professor BURGESS

INSTITUTES OF ROMAN LAW. 2 hours. Professor MUNROE SMITH

### Third Year

BANKRUPTCY—Williston's Cases on Bankruptcy. 2 hours, second half-year. Mr. HAYES

CORPORATIONS—Keener's Cases on Corporations. 2 hours. Professor CANFIELD

DAMAGES—Beale's Cases on Damages. 2 hours, first half-year. Mr. HAYES

EQUITY—Jurisdiction over Contracts, Account, Equitable Conversion; Keener's Cases on Equity, Vols. 2 and 3. 2 hours. Professor STONE

EVIDENCE—Thayer's Cases on Evidence. 2 hours. Mr. HUNTINGTON

MORTGAGES—Kirchwey's Cases on Mortgage. 2 hours. Professor SCOTT

PARTNERSHIP—Burdick's Cases on Partnership; Burdick on Partnership. 2 hours. Professor BURDICK

PLEADING AND PRACTICE—Code Practice, Provisional Remedies, Judgments, etc. 2 hours, first half-year. Professor REDFIELD

REAL AND PERSONAL PROPERTY—Conditions, Future Estates, Priorities, Restraints on Alienation, Perpetuities, etc.; Gray's Cases on Property, Vols. 5 and 6. 2 hours. Professor KIRCHWEY

**SURETYSHIP**—Ames's Cases on Suretyship. 2 hours, second half-year. Professor SCOTT

**TRUSTS AND PERPETUITIES**—Under the Revised Statutes of New York. 2 hours, second half-year. Professor CANFIELD

**WILLS AND ADMINISTRATION**—Gray's Cases on Property, Vol. 4. 2 hours. Professor REDFIELD

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**AMERICAN CONSTITUTIONAL LAW**—Private Rights under the Constitution. 2 hours. Professor BURGESS

**COMPARATIVE JURISPRUDENCE**. 2 hours. Professor MUNROE SMITH

**CONFLICT OF LAWS**. 1 hour. Professor MOORE

**HISTORY OF EUROPEAN LAW**. 2 hours. Professor MUNROE SMITH

**INTERNATIONAL LAW**. 2 hours. Professor MOORE

**MUNICIPAL CORPORATIONS**. 2 hours, first half-year. Professor GOODNOW

**SPANISH-AMERICAN LAW**. 1 hour. Professor MUNROE SMITH

**LAW OF TAXATION**. 2 hours, second half-year. Professor GOODNOW

#### Practice Courts

Moot Courts, conducted with special reference to the courses in pleading and practice, will constitute a regular feature of the work of the second and third years. They will be under the supervision of Mr. KAPS

#### Requirements for Admission

All applicants for admission to the school must present satisfactory evidence of good moral character, and must be at least eighteen years of age for admission to the work of the first-year class at its formation, and of a corresponding increase of age for admission to advanced standing. They are admitted subject to the provisions of the Statutes of the University in regard to discipline.

Graduates of colleges and scientific schools in good standing are admitted without examination. All persons other than such graduates must present satisfactory evidence of preliminary training, obtained in higher institutions of learning in this country or abroad, equivalent to that of a full college course.

In exceptional cases qualified persons not candidates for the degree of LL.B., who are not eligible under this rule, may be admitted as special students by vote of the Faculty.

#### Advanced Standing

Applicants for admission to advanced standing must produce satisfactory evidence of having spent as much time in some school having a required course of three years leading to the degree of Bachelor of

Laws as has been spent in this school by the class to which admission is sought, and must in addition thereto pass satisfactory examinations in all the work previously done by the class to which they seek admission. *No certificate or diploma will be accepted in lieu of these examinations for advanced standing.*

No applicant will be admitted to advanced standing beyond the second year except by special vote of the Faculty.

Applicants for admission to advanced standing will be required to produce evidence of having been qualified to enter the school at the formation of the class to which they seek admission. Examinations for advanced standing are held at the end of the academic year and during the week preceding the opening of the fall term.

### Special Students

Applicants who do not desire to become candidates for a degree may pursue a special course of study approved by the Dean. Such students will be classified as special students. Except as stated above, the requirements for the admission of special students to the school are the same as in the case of candidates for a degree. No one will be admitted to the school to pursue advanced work as a special student who has not passed satisfactory examinations in the contract, equity, and property courses preceding such work in point of time.

### Examinations

Written examinations are held at the end of each academic year on the subjects of that year, and on the subjects of the first and second years during the week preceding the opening of the fall term.

All students, whether regular or special, must, unless excused by the Dean, present themselves for examination in all the subjects for which they are registered at the first examination held therein, and, in case of excuse from any examination or failure therein, must take the next examination offered in such subject.

No student is admitted to advanced standing who has failed to pass satisfactory examinations in more than four hours of work per week. No student will be admitted to advanced standing as a member of the third-year class who has not at the beginning of his third year passed satisfactory examinations in all the subjects of the first year. No student failing a third time in any given subject will be allowed to continue in the school.

Special students must pass satisfactory examinations in not less than 75 per cent. of the work for which they are registered, as a condition of continuing in the school.

Students are not permitted to take examinations in courses for which they are not regularly registered.

*No special examinations are given.*

**Bachelor of Laws**

The course of instruction leading to the degree of Bachelor of Laws covers a minimum period of three years, in which there are offered seventy-three hours of instruction per week throughout the year. In the first year are offered fifteen and one-half hours, in the second year twenty-four and one-half hours, and in the third year thirty-three hours of instruction per week. Courses not taken in the first or the second year may be elected as a part of the work of the following year.

The degree of Bachelor of Laws is conferred only upon students who have passed satisfactory examinations in courses covering a total of forty-two hours per week.

To obtain this degree in three years the student must take courses covering not less than thirteen nor more than fifteen hours per week in any one of the three years. While no student will be allowed to present himself for examination in any one year in subjects covering more than the number of hours so taken, any one desiring to prolong the period of study for the degree of LL.B. beyond three years, will be permitted to reduce thereby the amount of work in any one year necessary for the degree. The Faculty would strongly advise students who have not made a thorough study of history, economics, and finance so to prolong their course of study, in order that they may avail themselves of the opportunities offered in the School of Political Science for pursuing these subjects.

The work selected by a student for a degree in law is subject in every case to the approval of the Dean.

**Master of Laws**

(See page 215)

**Master of Arts**

(See page 210)

**Scholarships**

(See page 45)

**Fees**

(See page 22)

**Law Library**

The law library has been greatly extended and improved, and now consists of about 30,000 volumes, which have been carefully selected to meet the wants of students. It is especially rich in American, English, and British Colonial reports.

The general library of the University, consisting of upwards of 350,000 volumes, contains extensive collections of works relating to international, public, and Roman law.



## REGISTER OF STUDENTS

### School of Law

#### THIRD YEAR CLASS

ADAMS, HARRY CHARLES.....	(Mhtn) New York City
ADAMS, WILLIAM HERBERT.....	(Mhtn) New York City
St. Francis Xavier College, A.B., 1900.	
Columbia University, A.M., 1901.	
AMSEL, CHARLES SIMPSON.....	(Br) New York City
ANDERSON, HARRY BENNETT.....	Memphis, Tenn.
BABCOCK, HENRY HERBERT.....	Watertown, N. Y.
Yale University, A.B., 1901.	
BAMMAN, FRANKLYN GEORGE.....	Asbury Park, N. J.
Princeton University, A.B., 1901.	
BARON, SAUL JEROME.....	(Bklyn) New York City
College of the City of New York, A.B., 1901.	
Columbia University, A.M., 1903.	
BELDEN, MEAD VAN ZILE.....	(Mhtn) New York City
Princeton University, A.B., 1901.	
BERLINICK, HARRY ROBERT.....	(Mhtn) New York City
BLOCH, HENRY.....	(Mhtn) New York City
BLUMENTHAL, HENRY ARTHUR.....	(Mhtn) New York City
BORDWELL, WALTER PERCY.....	(Mhtn) New York City
University of California, B.L., 1898.	
BOYSEN, HJALMAR HJORTH, II.....	Irvington, N. Y.
Columbia University, A.B., 1900.	
BRADLEY, CHRISTOPHER MASON.....	Tacoma, Wash.
Leland Stanford, Jr., University, A.B., 1901.	
BRADY, JOHN EDSON.....	Norwich, Conn.
BROWN, EDWARD DAVID.....	Albany, Ga.
Yale University, A.B., 1901.	
BRUCE, EDWARD BRIGHT.....	Yonkers, N. Y.
Columbia University, A.B., 1901.	
BRUNER, EDWARD THOMAS.....	(Mhtn) New York City
BÜHLER, JOSEPH STETTENHEIM.....	Columbus, Ga.
Columbia University, A.B., 1901.	
BURROWS, FRANK WILLIAM.....	Andover, N. Y.
Amherst College, B.S., 1901.	
CARDOZO, MICHAEL HART, Jr.....	(Mhtn) New York City
Columbia University, A.B., 1901.	
CHAPPEE, ROLLO NICHOLS.....	Amenia, N. Y.
CHAMBERS, CHARLES.....	(Bklyn) New York City
Amherst College, A.B., 1901.	
COLETY, FRANCIS.....	(Mhtn) New York City
Mount Angel College, A.B., 1898.	
Urban University, Ph.B., 1901.	

- COLLIS, CHARLES.....(Mhtn) New York City  
 CONE, NEWELL KINGSBURY.....Batavia, N. Y.  
 COUGHLAN, JEREMIAH JAMES.....(Mhtn) New York City  
 St. Francis Xavier College, A.B., 1901; A.M., 1902.  
 DE NYSE, RULIF VAN NUYSE.....(Bklyn) New York City  
 DONNELLAN, GEORGE LAURENCE.....(Mhtn) New York City  
 Columbia University, A.B., 1901.  
 DONVAN, BENJAMIN FRANKLIN.....(Mhtn) New York City  
 DORR, GOLDTHWAITE HIGGINSON.....Orange, N. J.  
 Harvard University, A.B., 1897.  
 DOTTENHEIM, HENRY SIMON.....(Mhtn) New York City  
 College of the City of New York, B.S., 1901.  
 DUMAS, JAMES PINCKNEY.....Van Alstyne, Tex.  
 Roanoke College, A.B., 1901.  
 EARLEY, MARTIN JOSEPH, JR.....(Mhtn) New York City  
 ERB, WILLIAM M.....Chemainus, B. C.  
 ERNST, ARTHUR OGDEN.....(Mhtn) New York City  
 Columbia University, A.B., 1901.  
 FARLEY, EDWARD VINCENT.....(Bklyn) New York City  
 St. Francis Xavier College, A.B., 1901.  
 FORSYTH, JAMES PORTER.....Cazenovia, N. Y.  
 FOX, DEWITT.....(Mhtn) New York City  
 FREEMAN, HENRY W.....(Mhtn) New York City  
 FULLER, FREDERIC JAMES.....(Mhtn) New York City  
 St. Francis Xavier College, A.B., 1901.  
 GAASS, GEORGE GERARD.....Pella, Iowa  
 Central University, Ph.B., 1901.  
 GEORGE, DAVID GWILIM.....Rome, N. Y.  
 Hamilton College, A.B., 1897; A.M., 1900.  
 GERNERD, FREDERICK BENJAMIN.....Allentown, Pa.  
 Franklin and Marshall College, A.B., 1901.  
 Columbia University, A.M., 1903.  
 GIBSON, CLAUDE WILLIAM.....Boise City, Idaho  
 Idaho State University, B.S., 1901.  
 GLENNEY, WALTER LESTER.....Yonkers, N. Y.  
 Columbia University, A.B., 1902.  
 GOLDIE, WILLIAM VALENTINE.....New London, Conn.  
 GORDON, HARRY ALLEN.....(Mhtn) New York City  
 College of the City of New York, A.B., 1901.  
 Columbia University, A.M., 1902.  
 GOSSETT, MORRIS ELIAS.....(Mhtn) New York City  
 College of the City of New York, B.S., 1901.  
 GRASSE, WILLIAM HENRY.....(Mhtn) New York City  
 GROSSMAN, MORRIS.....(Mhtn) New York City  
 GROSVENOR, EDWIN PRESCOTT.....Amherst, Mass.  
 Amherst College, A.B., 1897; A.M., 1900.  
 GUMM, HARRIS HAROLD.....(Mhtn) New York City  
 Columbia University, A.B., 1901.  
 GUTGSELL, ADOLPH EUGENE.....(Mhtn) New York City  
 College of the City of New York, B.S., 1901.  
 Columbia University, A.M., 1903.  
 HAHN, ROBERT HAMILTON.....Augusta, Ga.  
 HALL, HUBERT ROE.....Athens, Ill.  
 Eureka College, A.B., 1897.  
 HALPIN, JOHN JOSEPH.....(Mhtn) New York City  
 St. Francis Xavier College, A.B., 1901.

- HALSTEAD, KENNETH BURT.....(Bklyn) New York City  
Columbia University, A.B., 1902.
- HEAD, HAYDEN WILSON.....Sherman, Tex.  
Austin College, B.S., 1901.
- HERSHEY, JOHN SHARTLE.....Hockersville, Pa.  
Franklin and Marshall College, A.B., 1901.
- HERZ, HENRY.....(Mhtn) New York City
- HILL, PHILIP SAMUEL.....North Tonawanda, N. Y.
- HIPPLE, JOHN ALFRED.....Marietta, Pa.
- HIRSCH, HAROLD.....Atlanta, Ga.  
University of Georgia, A.B., 1901.
- HULL, FRANK IRVING.....Mt. Vernon, N. Y.
- HUTTER, ARTHUR.....(Mhtn) New York City
- KAHN, ARTHUR CHARLES.....(Mhtn) New York City  
College of the City of New York, B.S., 1901.  
Columbia University, A.M., 1903.
- KAHRS, JOHN DANIELL.....(Mhtn) New York City  
College of the City of New York, A.B., 1903.
- KALISKY, ABRAHAM.....(Mhtn) New York City
- KAUFMAN, HENRY HOLZHEIMER.....(Mhtn) New York City
- KERR, CLARENCE DILWORTH.....Englewood, N. J.  
Princeton University, A.B., 1901.
- KRAUSE, JOHN JACOB.....Chicago, Ill.
- LA ROCHE, PHILIP BEVAN, Jr.....(Mhtn) New York City  
Columbia University, A.B., 1903.
- LEDERER, ALISON MICHAEL.....(Mhtn) New York City  
Columbia University, A.B., 1901; A.M., 1903.
- LEE, JOSEPH DAY.....(Mhtn) New York City  
Richmond College, A.B., 1899; A.M., 1900.
- LEWY, HARRY MIER.....Galveston, Tex.  
Columbia University, A.B., 1902.
- LINDENBERGER, JACOB HOPEWELL.....Louisville, Ky.  
University of Louisville, LL.B., 1900.
- LIPPE, VINCENT STUYVESANT.....(Mhtn) New York City
- McKEE, DOUGLAS.....(Mhtn) New York City
- McLAUGHLIN, WARREN JOHN.....Lima, O.  
Hamilton College, A.B., 1901.
- MAHAN, LYLE EVANS.....(Mhtn) New York City  
Columbia University, A.B., 1902.
- MARX, HENRY.....(Mhtn) New York City  
College of the City of New York, B.S., 1901.
- MELNIKER, AARON A.....Bayonne, N. J.
- MERCER, GEORGE, Jr.....(Mhtn) New York City
- MEYER, RUTHERFORD BIRCHARD.....(Br) New York City  
Columbia University, A.B., 1901.
- MOORE, BERNARD V.....Tipton, Ind.
- MOORE, HENRY, Jr.....Texarkana, Ark.
- PARHAM, FRANK EARLE.....Oxford, N. C.  
Wake Forest College, A.B., 1895.  
Columbia University, A.M., 1903.
- PHILLIPS, JOHN FRANK.....(Bklyn) New York City  
Amherst College, A.B., 1901.
- RAY, THOMAS HASSET.....(Mhtn) New York City  
College of the City of New York, B.S., 1901.  
Columbia University, A.M., 1903.

- REARDON, BERNARD ELWOOD.....Yonkers, N. Y.  
St. Francis Xavier College, A.B., 1901.
- REARICK, ALLAN CHAMBERLAIN.....(Mhtn) New York City  
Knox College, A.B., 1897.
- ROACH, LORIN J.....Rock Rapids, Iowa  
University of Iowa, Ph.B., 1900.
- <sup>1</sup> ROOD, WILLIAM HERVY.....Princeton, Ill.  
Yale University, A.B., 1899.  
Columbia University, A.M., 1903.
- ROSE, CHARLES RESEAU.....South Amboy, N. J.
- RUCKER, ALVAH JOHNSON.....Evansville, Ind.  
University of Indiana, A.B., 1901.
- RUEF, JOHN WILLIAM.....Poughkeepsie, N. Y.  
Lafayette College, Ph.B., 1901.
- SAMPLE, SAMUEL JOHN.....Eureka, Kan.  
Ottawa University, A.B., 1901.
- SEAMAN, FREDERIC CROMWELL.....(Bklyn) New York City
- SELIGSBERG, WALTER NATHAN.....(Mhtn) New York City
- SMITH, ELWOOD CRONON.....Turner, N. Y.
- SMITH, HOWARD ALEXANDER.....(Mhtn) New York City  
Princeton University, A.B., 1901.
- SMITH, JOHN BOYCE, Jr.....(Br) New York City  
Columbia University, A.B., 1901; A.M., 1902.
- SMITH, JOHN HAVILAND.....Port Chester, N. Y.
- SMITH, RICHARD SHORE.....Phoenix, Ariz.  
University of Oregon, A.B., 1901.
- SPICER, CHARLES CLYDE.....Colorado Springs, Colo.  
Columbia University, A.B., 1902.
- SPRIGG, CARROLL.....Dayton, O.  
Yale University, Ph.B., 1901.
- SQUIRES, LEWIS.....Springfield, N. J.  
Williams College, A.B., 1901.
- STOWELL, EDWARD ESTY.....Ithaca, N. Y.  
Hamilton College, A.B., 1901.
- STRAUS, EMANUEL EMORY.....Louisville, Ky.  
Yale University, A.B., 1901.
- STREBEIGH, ROBERT LEFFERTS.....(Mhtn) New York City  
Columbia University, A.B., 1902.
- SULLIVAN, JAMES CHARLES.....Butte, Mont.
- TABER, ERROLL JAMES LIVINGSTON.....Elko, Nev.
- TIMMERMEISTER, KARL.....Wapakoneta, O.
- TOMLINSON, JOHN CANFIELD, Jr.....(Mhtn) New York City  
Yale University, A.B., 1901.
- VOGEL, EARL.....Jacksonville, Ill.  
Illinois College, B.S., 1897.
- WALSH, JOHN JOSEPH, Jr.....(Mhtn) New York City  
St. Francis Xavier College, A.B., 1901.
- WHEAT, BENJAMIN PATTERSON.....Mt. Vernon, Iowa  
Cornell University, Ph.B., 1898.
- WITHROW, WILLIAM EDGAR.....Central City, Colo.  
University of Colorado, A.B., 1900.

Third Year Class..... 119

<sup>1</sup> Died November 1, 1903



## SECOND YEAR CLASS

ABBOTT, GARDNER.....	(Mhtn) New York City Yale University, A.B., 1902.
ABRAHAM, BENJAMIN.....	(Mhtn) New York City College of the City of New York, A.B., 1902.
AGENBROAD, ALBERT ALONZO.....	Tippecanoe City, O. Oberlin College, A.B., 1900; A.M., 1901.
ALLEN, WILLIAM FITCH.....	Oswego, N. Y. Columbia University, A.B., 1903.
ANDERSON, HALCOTT.....	Pensacola, Fla. University of North Carolina, A.B., 1900.
ASCH, DAVID.....	(Mhtn) New York City Columbia University, A.B., 1903.
BACH, MILTON JACOB.....	(Mhtn) New York City Harvard University, B.S., 1902.
BAKERMAN, JOHN JAMES.....	(Mhtn) New York City Columbia University, A.B., 1903.
BALLENBERG, MILTON.....	(Mhtn) New York City
BARRETT, RANDOLPH COE.....	Bloomfield, N. J. Williams College, A.B., 1903.
BATES, KAHL CLEMENT.....	(Bklyn) New York City
BEALE, PHELON.....	Montgomery, Ala. University of the South, LL.B., 1902.
BEATTY, EARLE LYNWOOD.....	Lexington, Ky. Kentucky University, A.B., 1899; A.M., 1900.
BERNHEIM, SYDNEY.....	(Mhtn) New York City
BIRMINGHAM, WILLIAM GEORGE.....	Liberty, N. Y.
BOORAEM, ROLFE ROOSEVELT.....	Newark, N. J.
BRADLEY, ALLAN BEACH ARNOLD.....	(Mhtn) New York City Columbia University, A.B., 1902.
BROUSE, EDWIN WALTER.....	Akron, O. Oberlin College, A.B., 1901.
BUDINGTON, ERNEST GUNTON.....	(Bklyn) New York City Columbia University, A.B., 1902.
BURNQUIST, JOSEPH ALFRED ARNER.....	Dayton, Iowa Carleton College, A.B., 1902.
BUTLER, BENJAMIN FRANKLIN.....	(Mhtn) New York City Columbia University, A.B., 1903.
CALLAHAN, GEORGE JOHN.....	Nyack, N. Y.
CAPONIGRI, JOSEPH FERRUTUM.....	(Mhtn) New York City Manhattan College, A.B., 1902.
CARTER, JARVIS POMEROY.....	(Mhtn) New York City Columbia University, A.B., 1902.
CARTWRIGHT, LAWRENCE RANDOLPH.....	Portland, Ind. De Pauw University, Ph.B., 1900.
COHEN, ARTHUR JOSEPH.....	(Mhtn) New York City Dartmouth College, A.B., 1903.
COLLYER, HOMER LUSK.....	(Mhtn) New York City College of the City of New York, A.B., 1902.
CONWELL, EDWARD VINSON.....	(Mhtn) New York City
COOK, WALTER, JR.....	(Mhtn) New York City Harvard University, A.B., 1902.

- COWEN, HARRY GABRIEL.....(Mhtn) New York City  
Columbia University, A.B., 1902.
- CRAWFORD, WILLIAM KAY.....Los Angeles, Cal.  
University of California, B.L., 1902.
- CREEVEY, WILLIAM STICKNEY.....(Bklyn) New York City  
Yale University, A.B., 1902.
- CUMMINGS, WILBUR LOVE.....Springfield, O.  
Kenyon College, A.B., 1902.
- DANA, CHARLES ANDERSON.....(Mhtn) New York City  
Columbia University, A.B., 1902.
- DAVIS, ARTHUR LOUIS.....(Mhtn) New York City
- DAVIS, EDWARD LeROY.....Orange, N. J.
- DEWERSE, FRED MILO.....Lincoln, Neb.  
University of Nebraska, A.B., 1902.
- DICKINSON, HOWARD COCKS.....(Mhtn) New York City  
Harvard University, A.B., 1902; A.M., 1903.
- DOLLIN, EDGAR NORMAN.....(Mhtn) New York City
- DUELL, WILLIAM COMSTOCK.....Tarrytown, N. Y.
- DUNHAM, FREDERIC GIBBONS.....Buffalo, N. Y.  
Cornell University, A.B., 1902.
- DURHAM, KNOWLTON.....(Mhtn) New York City  
Columbia University, A.B., 1901; A.M., 1902.
- DWORSKY, HARRY PERRY.....(Mhtn) New York City  
College of the City of New York, A.B., 1902.
- EARLE, ENOCH WALTER.....Worcester, Mass.
- FINEGAN, JAMES EMMET.....Schenectady, N. Y.  
Union College, Ph.B., 1902.
- FINNEY, CHARLES ALEXANDER.....Bradford, Pa.
- FOSS, FRANK HALSEY.....Norwich, Conn.  
Trinity College, A.B., 1901.
- FULD, LEONHARD FELIX.....(Mhtn) New York City  
Columbia University, A.B., 1903.
- FULLER, HERBERT LEE.....Waterport, N. Y.  
Union College, Ph.B., 1902.
- GAST, ROBERT SHAEFFER.....Pueblo, Colo.  
Yale University, A.B., 1902.
- GILLETTE, ALBERT COOLEY.....Rossburg, N. Y.  
Illinois Wesleyan University, Ph.B., 1900.
- GOELET, ROBERT WALTON.....Newport, R. I.  
Harvard University, A.B., 1902; A.M., 1903.
- GOLDFARB, PHILIP.....Paterson, N. J.
- GOLDSMITH, OLIVER LEWIS.....New London, Conn.
- GOODMAN, EMIL MAXWELL.....Glen Cove, N. Y.
- HAAS, HERBERT JOSEPH.....Atlanta, Ga.  
Columbia University, A.B., 1903.
- HARDMAN, MAX.....Seattle, Wash.
- HARRINGTON, RICHARD VINCENT.....(Mhtn) New York City  
St. John's College, A.B., 1901.
- HARRISON, RICHARD COMPTON.....(Bklyn) New York City  
Columbia University, A.B., 1903.
- HAYS, ARTHUR GARFIELD.....(Mhtn) New York City  
Columbia University, A.B., 1902.

- HERCHÉ, HAROLD HOWARD.....(Mhtn) New York City  
 HEYMAN, HENRY K.....(Mhtn) New York City  
 Columbia University, A.B., 1903.
- HINCKES, ROBERT BERESFORD.....Philadelphia, Pa.  
 Columbia University, A.B., 1902.
- HOFFMAN, MILTON.....(Mhtn) New York City  
 College of the City of New York, A.B., 1902.
- HOGUET, RAMSAY.....(Mhtn) New York City  
 Columbia University, E.E., 1903.
- HOWES, HENRY WRIGHT.....Macon, Ga.
- ITEMANN, HENRY CHRISTIAN.....(Br) New York City  
 College of the City of New York, B.S., 1902.
- JARMULOWSKY, ADOLPH.....(Mhtn) New York City
- KAUFMANN, CHARLES.....(Mhtn) New York City  
 College of the City of New York, A.B., 1902.
- KAUFMANN, SIDNEY WALTER.....(Mhtn) New York City
- KELLOGG, JAMES YOUNG CORY.....Seattle, Wash.
- KENNEY, ALEXANDER LAWRENCE.....Dansville, N. Y.
- KOUWENHOVEN, HARRY WILLIAMSON.....(Q) New York City
- LANE, CHARLES JAMES.....(Mhtn) New York City  
 College of the City of New York, B.S., 1901.
- LAWRENCE, CLAY.....Deadwood, S. Dak.  
 Dakota State College of Agriculture and Mechanic Arts, B.S., 1898.
- LEFEVRE, FRANCIS EDWARD.....(Mhtn) New York City
- LEVY, JACOB.....(Mhtn) New York City
- LEWIS, MILES WALKER.....Greensboro, Ga.  
 University of Georgia, A.B., 1902.
- LICHTIG, ARNOLD.....(Mhtn) New York City
- LOEW, CHARLES EDWARD.....(Mhtn) New York City  
 University of Paris, B. és L. et Sci., 1896.
- LOW, ETHELBERT IDE.....(Mhtn) New York City  
 Yale University, A.B., 1902.
- McGEE, LEONARD.....(Bklyn) New York City
- MANGAN, JAMES MICHAEL.....Binghamton, N. Y
- MATTHEWS, WILLIAM McLANE.....Duncans Mills, Va  
 Emory and Henry College, A.B., 1902.
- MILLER, CHARLES DUNCAN.....(Mhtn) New York City  
 Yale University, A.B., 1902.
- MILLETT, DANIEL APPLETON.....Chehalis, Wash  
 University of Washington, A.B., 1901.
- MOORE, JOHN MERRICK.....Little Rock, Ark  
 University of Arkansas, LL.B., 1902.
- MORRIS, ALBERT HENRY.....(Bklyn) New York City
- MOSES, JAMES GARFIELD.....Louisville, Ky  
 Columbia University, A.B., 1903.
- NAGLE, GEORGE ALBERT.....Hollis, N. Y
- NEARY, FRANK WATKINS.....Cohoes, N. Y  
 Union College, A.B., 1902.
- NOHOWEC, FRANK PIERCE.....Sayville, N. Y
- NOVOTNY, CLARENCE JOHN.....Yankton, S. Dak  
 Yankton College, Ph.B., 1903.
- PALMER, AMOS DAKE.....Rochester, N. Y
- PARKER, ASHTON.....(Mhtn) New York City
- PATTERSON, ARCHIBALD McDOUGAL.....Savannah, Tenn  
 Vanderbilt University, A.B., 1902.

- PECKHAM, REUBEN.....Troy, N. Y.  
Dartmouth College, B.S., 1902.
- PIERCE, HOWARD WEIDNER.....New Brighton, Pa.  
Yale University, A.B., 1902.
- PINCUS, EMILE.....(Mhtn) New York City  
College of the City of New York, B.S., 1902.
- PITSKE, EDGAR DUDENSING.....(Mhtn) New York City
- PRENSKY, JOSEPH MOSES.....(Bklyn) New York City
- PRITCHARD, WILLIAM HENRY.....Kane, Pa.  
Oberlin College, A.B., 1902.
- PROCTOR, DAVID MILTON.....Monroe City, Mo.  
William Jewell College, A.B., 1902.
- REYNOLDS, HENRY SUYDAM.....(Mhtn) New York City  
Yale University, A.B., 1902.
- ROGERS, SAUL EDWIN.....(Mhtn) New York City  
College of the City of New York, B.S., 1902.
- ROWE, HOWARD MEAD.....(Q) New York City
- St. JOHN, THEODORE RAYMOND.....Troy, N. Y.  
Columbia University, A.B., 1902.
- SALLEY, EDWARD MICHAEL.....Jersey City, N. J.
- SANBORN, ORVILLE CARFIELD.....Chenoa, Ill.  
Oberlin College, A.B., 1902.
- SCHEY, JACOB S.....Longmont, Colo.  
University of Colorado, Ph.B., 1902.
- SCHULDENFRIE, LEWIS.....Atlantic City, N. J.
- SCHUSTER, EDWARD.....(Mhtn) New York City  
Columbia University, A.B., 1902.
- SCHWAB, FRANCIS CHARLES.....(Mhtn) New York City  
Notre Dame University, A.B., 1902.
- SCHWAB, ROBERT.....Glen Cove, N. Y.
- SCHWARZ, RALPH JACOB.....New Orleans, La.  
Tulane University, A.B., 1902.
- SHUART, HARRY ACKERMAN.....Ramsey, N. J.  
Yale University, Ph.B., 1902.
- SINCERBEAUX, FRANK HUESTIS.....Moravia, N. Y.  
Yale University, A.B., 1902.
- SITTENFIELD, MILTON MARCUS.....Elmira, N. Y.
- SMITH, HERBERT WILLIAM.....North Haven, Conn.  
Yale University, A.B., 1902.
- SPENCER, JOSEPH WHITTLESEY.....Westbrook, Conn.  
Columbia University, A.B., 1902.
- STANTON, GEORGE FREDERICK.....(Mhtn) New York City
- STEELE, PORTER.....(Bklyn) New York City  
Yale University, A.B., 1902.
- STEINER, MAURICE.....(Mhtn) New York City  
College of the City of New York, A.B., 1902.
- STEYNE, LOUIS ARNDT.....(Mhtn) New York City
- STRASSER, ARTHUR LEWIS.....(Mhtn) New York City  
Columbia University, A.B., 1903.
- SULLIVAN, FRANCIS JOSEPH ALOYSIUS.....(Bklyn) New York City  
St. Francis Xavier College, A.B., 1902; A.M., 1903.
- SULLIVAN, MORTIMER ALOYSIUS.....Newport, R. I.
- TALLMADGE, CLAUD PAUL.....Groton, N. Y.  
Cornell University, A.B., 1903.



- TELSEY, SAMUEL ABRAHAM.....(Bklyn) New York City  
Columbia University, A.B., 1903.
- TE POEL, LOUIS JOHN.....Prague, Neb.  
Fremont Normal College, A.B., 1902.
- TEPPER, EMANUEL.....(Mhnt) New York City
- TILLINGHAST, RICHARD BARBER.....(Mhnt) New York City  
Yale University, A.B., 1902.
- TINKER, EDWARD LAROCQUE.....(Mhnt) New York City  
Columbia University, A.B., 1902.
- TOLBERT, WARD VANDERHOOP.....Watkins, N. Y.  
University of Rochester, A.B., 1902.
- TREVOR, JOHN BOND.....Yonkers, N. Y.  
Harvard University, A.B., 1902; A.M., 1903.
- TYLER, ERNEST WILLIAM.....(Bklyn) New York City
- WALKER, AARON STOCKHOLM BALDWIN.....Guttenburg, N. J.
- WALLACH, SAMUEL WILLIAM.....(Mhnt) New York City
- WEATHERS, NIEL ALEXANDER.....Ocala, Fla.  
Amherst College, B.S., 1893.
- WECHSLER, JOSEPH ZACHARAY.....(Mhnt) New York City  
College of the City of New York, B.S., 1901.
- WEINSTEIN, SAMUEL.....(Bklyn) New York City
- WELCH, PAUL ROSS.....Westfield, N. Y.
- WESTERVELT, WARNER WESLEY, Jr.....Woodcliff, N. J.
- WILLING, MARK SEINNER.....Chicago, Ill.  
Yale University, A.B., 1902.
- WOLFF, ALFRED JULIUS.....(Mhnt) New York City
- WOLFF, JACOB.....Yonkers, N. Y.  
New York University, Ph.B., 1902.
- WRIGHT, MOSSES JAMES.....Worthington, O.  
Cornell University, A.B., 1900.

Second Year Class..... 147

#### FIRST YEAR CLASS

- AGATE, FREDERIC JOSEPH.....(Mhnt) New York City  
Columbia University, A.B., 1903.
- ALTERMAN, LEWIS BENNETT.....(Mhnt) New York City
- ANSORGE, MARTIN CHARLES.....(Mhnt) New York City  
Columbia University, A.B., 1903.
- BANKS, HOWARD MELLEN.....Port Chester, N. Y.
- BARNHISEL, WALTER BENEDICT.....San José, Cal.  
Leland Stanford, Jr., University, A.B., 1903.
- BARRETT, JACOB EDWARD.....Dunlap, Iowa  
University of Iowa, Ph.B., 1903.
- BAUER, HENRY OSWALD A.....Piermont, N. Y.
- BAUERDORF, CHARLES ROHE.....(Mhnt) New York City  
Princeton University, B.S., 1903.
- BEEKMAN, HENRY RUTGERS.....(Mhnt) New York City  
Columbia University, A.B., 1903.
- BENNETT, JAMES STARK.....Pomona, Cal.  
Pomona College, B.L., 1903.
- BLUMBERG, SAMUEL.....(Mhnt) New York City  
College of the City of New York, B.S., 1903.

- BOLLES, JOHN ALBERT.....Kortright, N. Y.  
Union College, A.B., 1903.
- BROWN, HENRY LINN.....(Mhtn) New York City
- BROWN, LOUIS.....(Mhtn) New York City  
College of the City of New York, A.B., 1902.
- BRUNER, HOWARD EDWIN.....Rayne, La.  
Louisiana State University, A.B., 1903.
- BUSHONG, ROBERT GREY.....Reading, Pa.  
Yale University, A.B., 1903.
- BUTLER, GEORGE HENRY, Jr.....(Mhtn) New York City  
Columbia University, A.B., 1903.
- CANTRELL, LEWIS MEANS.....Spartanburg, S. C.  
Wofford College, A.B., 1903.
- CHAMBERLIN, WARD BRYAN, Jr.....(Mhtn) New York City  
Princeton University, A.B., 1903.
- CLARK, JOSHUA REUBEN, Jr.....Salt Lake City, Utah  
University of Utah, B.S., 1898.
- CLOSE, EDWARD BENNETT.....Yonkers, N. Y.
- COLE, FRANK CLAYTON.....Ravenna, Ohio  
Ohio Wesleyan University, A.B., 1903.
- COOPER, CURTIS CALVIN.....Wilmington, Del.  
Delaware College, A.B., 1902.
- CRONE, HARRY.....(Mhtn) New York City  
College of the City of New York, B.S., 1902.
- CUSTER, GEORGE ARMSTRONG.....Salida, Colo.  
Wooster University, A.B., 1900.
- CUTLER, CARL CUSTER.....Greenville, R. I.  
Brown University, A.B., 1903.
- CUTLER, HUGH DYSART.....(Mhtn) New York City  
Cornell University, A.B., 1902.
- DIXON, BENJAMIN FRANKLIN, Jr.....Raleigh, N. C.  
Trinity College, A.B., 1903.
- FRANK, WALTER.....(Mhtn) New York City  
Columbia University, A.B., 1903.
- GANS, JULIUS.....Chicago, Ill.  
Yale University, A.B., 1903.
- GARRETSON, LELAND BEEKMAN.....Morristown, N. J.  
Princeton University, A.B., 1903.
- GOLDSMITH, IRVING ISLINGTON.....Saratoga Springs, N. Y.  
Cornell University, A.B., 1903.
- GRIDLEY, HARRY NORMAN.....Virginia, Ill.  
University of Illinois, A.B., 1901; A.M., 1902.
- GRIFFITH, JOHN MARTIN.....Evansville, Ind.  
Cornell University, A.B., 1903.
- GRIMLEY, EDWARD ANTHONY.....(Br) New York City  
Fordham College, A.B., 1903.
- HANKINSON, JOHN HENRY.....Eatontown, N. J.  
Princeton University, A.B., 1903.
- HARRIS, WILLIAM MARVIN.....Monticello, Ark.  
University of Arkansas, A.B., 1903.
- HAVILAND, JOSEPH BERNARD.....Glen Falls, N. Y.  
Haverford College, A.B., 1902.

- HENDRICKSON, CHARLES LE ROY.....(Bklyn) New York City  
Columbia University, A.B., 1903.
- HESS, JEROME SAYLES.....(Mhtn) New York City  
Yale University, A.B., 1903.
- HIGGINS, JAMES CRANE.....East Orange, N. J.  
Yale University, A.B., 1902.
- HOENNINGER, JOHN CHARLES.....(Mhtn) New York City
- HOFFMAN, FRANK KNODE.....Hagerstown, Md.  
Franklin and Marshall College, A.B., 1903.
- HOPFHEIMER, HENRY.....(Mhtn) New York City  
College of the City of New York, A.B., 1903.
- HOMIDGE, HENRY T.....(Mhtn) New York City  
College of the City of New York, A.B., 1903.
- HURWITZ DAVID EDWIN.....(Mhtn) New York City  
College of the City of New York, A.B., 1903.
- ISAACS, STANLEY MYER.....(Mhtn) New York City  
Columbia University, A.B., 1903.
- JOHNSON, HARRY THEODORE.....Dakota, Neb.  
University of Nebraska, A.B., 1901.
- KOBBE, GEORGE LOUIS.....(Mhtn) New York City  
Harvard University, A.B., 1903.
- LAWRENCE, GEORGE ALFRED.....(Mhtn) New York City  
Leland Stanford, Jr., University, A.B., 1892.  
Columbia University, M.D., 1895; A.M., 1896; Ph.D., 1902.
- LEIBENDERFER, RALPH JOHN.....Dayton, Ohio  
Princeton University, A.B., 1902.
- LONGENECKER, BENJAMIN FRANKLIN.....Delta, Ohio  
Cornell University, A.B., 1903.
- LOUCKS, EDWIN MILLER.....York, Pa.  
Princeton University, A.B., 1903.
- McCLINTOCK, HENRY LACY.....Mt. Vernon, N. Y.  
Colorado College, Ph.B., 1903.
- MCDONALD, JAMES EDWARD WHITE.....(Mhtn) New York City
- McGEHEE, ABNER, Jr.....Little Rock, Ark.  
University of Arkansas, A.B., 1903.
- McKENNA, BERNARD CHARLES.....Long Branch, N. J.  
Georgetown University, A.B., 1903.
- MACMAHON, EDWARD WARD.....Freeport, N. Y.  
Holy Cross College, A.B., 1903.
- MACMURRAY, JOHN VAN ANTWERP.....(Mhtn) New York City  
Princeton University, A.B., 1902.
- MARCUS, SAMUEL SHUAER.....(Mhtn) New York City  
College of the City of New York, A.B., 1903.
- MEISEL, ALBERT WORTHINGTON.....(Bklyn) New York City  
Brooklyn Polytechnic Institute, A.B., 1902.
- MICHAELIS, WILLIAM.....(Mhtn) New York City  
College of the City of New York, A.B., 1903.
- MILLER, FRANK LAUNTZ.....Bakersville, Pa.  
Lafayette College, Ph.B., 1903.
- MORGAN, PORTER HEATH.....El Reno, Okla.  
Drake University, Ph.B., 1903.
- MORROW, WILLIAM CARR.....Portland, Ore.  
Leland Stanford, Jr., University, A.B., 1901.

- MOUNT, RUSSELL THEODORE.....East Orange, N. J.  
Princeton University, A.B., 1902.
- MYERS, GEORGE.....(Mhtn) New York City  
College of the City of New York, A.B., 1903.
- O'BRIEN, EDWARD JEROME.....(Mhtn) New York City  
St. John's College, A.B., 1903.
- O'LOUGHLIN, GERALD STUART.....(Mhtn) New York City  
Columbia University, A.B., 1903.
- O'SHEA, AMBROSE LUDDEN.....Utica, N. Y.  
Holy Cross College, A.B., 1903.
- PAOLI, RAPHAEL DELLI.....(Mhtn) New York City  
St. John's College, A.B., 1903.
- PARKER, WAYNE DEE.....Rensselaer, Ind.  
Butler College, A.B., 1903.  
University of Chicago, Ph.B., 1903.
- PERRIN, EDWARD BURT, Jr.....Williams, Ariz.  
Harvard University, A.B., 1901.
- PINKS, JAMES LESLIE.....Clarion, Pa.  
Indiana University, A.B., 1903.
- POPE, DONALD IRVING.....Red Cloud, Neb.  
University of Nebraska, A.B., 1898.
- RAGSDALE, WILLIAM WHEAT.....Franklin, Ind.  
Indiana University, A.B., 1903.
- RICHTER, THEODORE BERTRAM.....(Mhtn) New York City  
Harvard University, A.B., 1903.
- RIGGS, LAWRASON, Jr.....(Mhtn) New York City  
Columbia University, A.B., 1903.
- ROBERTS, RICHARD JOEL.....Shelbyville, Ill.  
De Pauw University, Ph.B., 1895.
- SAYRE, LEWIS A.....(Mhtn) New York City  
Yale University, A.B., 1903.
- SCHLEY, REEVE.....(Mhtn) New York City  
Yale University, A.B., 1903.
- SCHROEDER, RUDOLPH.....Hoboken, N. J.  
Columbia University, A.B., 1903.
- SCHWEGLER, FREDERICK HENRY.....(Mhtn) New York City
- SEDGWICK, ROBERT, Jr.....(Mhtn) New York City  
Harvard University, A.B., 1902.
- SENDER, CHARLES SALO.....(Mhtn) New York City
- SHORT, HENRY BLOUNT, Jr.....Lake Waccamaw, N. C.  
University of North Carolina, A.B., 1902.
- SMITH, CLAUDE ARCHER.....Owensville, Ind.  
Indiana University, A.B., 1903.
- SOLOTAROFF, DAVID HERTZ.....(Mhtn) New York City  
College of the City of New York, A.B., 1902.
- SPRINGS, ALBERT ADAMS, Jr.....Georgetown, S. C.  
South Carolina College, A.B., 1902.
- STARK, SAMUEL.....(Mhtn) New York City  
College of the City of New York, B.S., 1903.
- STERN, HARRY ROOT.....(Mhtn) New York City  
Yale University, A.B., 1903.
- SUTTON, GEORGE AUGUSTUS KEEN.....(Mhtn) New York City  
Columbia University, A.B., 1903.



SWARTS, LOUIS EMANUEL.....	(Mhtn) New York City Harvard University, A.B., 1903.
THEIL, SIGMUND SIDNEY.....	(Mhtn) New York City College of the City of New York, A.B., 1903.
TRUAX, HARRY.....	Long Branch, N. J.
UNGER, WILLIAM FRANK.....	(Mhtn) New York City College of the City of New York, A.B., 1902.
VON BERNUTH, RUDOLPH LUDWIG.....	(Mhtn) New York City Columbia University, A.B., 1903.
WALLSTEIN, LEONARD MICHAEL.....	(Mhtn) New York City Columbia University, A.B., 1903.
WEIL, JULIUS.....	Lincoln, Neb. University of Nebraska, LL.B., 1903.
WYATT, CHRISTOPHER BILLOPP.....	(Mhtn) New York City Columbia University, A.B., 1903.
WYCKOFF, CLARENCE JOHNSON.....	(Bklyn) New York City Columbia University, A.B., 1903.
WYLIE, JOHN PARR.....	(Mhtn) New York City Columbia University, A.B., 1902.
YANCEY, GEORGE WILLIAM.....	La Grange, Ga.
ZINSLER, JACOB JOSEPH.....	(Mhtn) New York City College of the City of New York, A.B., 1903.
First Year Class.....	104

## SPECIAL STUDENTS

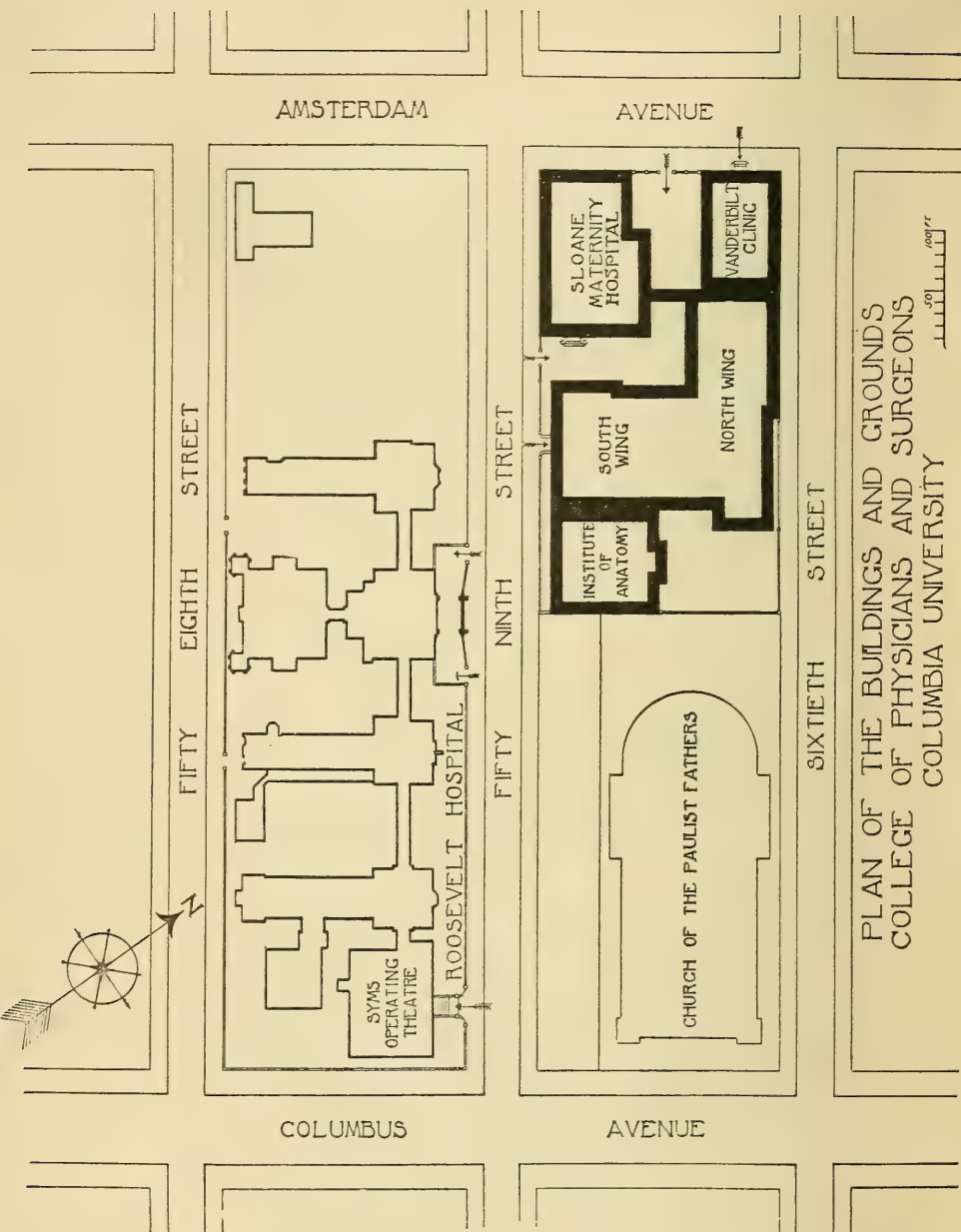
ADAMS, WILLIAM CLARK.....	Wooster, Ohio University of Colorado, Ph.B., 1902.
BAYES, WILLIAM ROBERT.....	Waneseon, Ohio Ohio Wesleyan University, A.B., 1901.
CARROLL, ARTHUR.....	(Mhtn) New York City
DOYLE, CHARLES AUGUSTINE.....	(Bklyn) New York City Manhattan College, A.B., 1902.
FASOLA, JOHN BAPTIST.....	(Mhtn) New York City
FORD, F. GUALDO.....	Morristown, N. J.
KIRKPATRICK, FRANK FELIX.....	(Mhtn) New York City Christian Brothers' College, A.B., 1900.
McBAINE, JAMES PATTERSON.....	Columbia, Mo. Missouri University, LL.B., 1902.
McBRIDE, JOHN JAY.....	(Mhtn) New York City Manhattan College, A.B., 1901.
O'NEIL, JOSEPH SIMON.....	Binghamton, N. Y. Canisius College, A.B., 1900.
PALMA, JOSÉ ESTRADA.....	Havana, Cuba
TWEEDY, JAMES B.....	(Br) New York City
WALLACE, JAMES GARRETT, JR.....	(Mhtn) New York City
WISE, JOHN PARKER.....	Horne City, Ohio De Pauw University, Ph.B., 1898.

Special Students..... 13

## SUMMARY

Third Year Class.....	119
Second Year Class.....	147
First Year Class.....	104
Special Students.....	14
Total.....	384





# SCHOOL OF MEDICINE

## COLLEGE OF PHYSICIANS AND SURGEONS

The instruction in medicine is given under the following departments:

ANATOMY	GYNECOLOGY
BACTERIOLOGY AND HYGIENE	HISTOLOGY
CHEMISTRY, GENERAL	MATERIA MEDICA AND THERA- PEUTICS
CHEMISTRY, PHYSIOLOGICAL	NEUROLOGY
CLINICAL INSTRUCTION IN DER- MATOLOGY, GENITO - URINARY	OBSTETRICS
DISEASES, LARYNGOLOGY, OPH- THALMOLOGY, ORTHOPEDIC SUR- GERY, OTOLOGY	PATHOLOGY
CLINICAL PATHOLOGY	PHYSICS
DISEASES OF CHILDREN	PHYSIOLOGY
	PRACTICE OF MEDICINE
	SURGERY

### Officers of the Faculty

JOHN G. CURTIS, M.D.....	<i>Elected Delegate to the University Council and Acting Dean</i>
JAMES DITMARS VOORHEES, M.D.....	<i>Secretary</i>
WALTER B. JAMES, M.D. ....	<i>Elected Delegate to the University Council</i>

### Committee on Administration

Drs. CURTIS (Chairman), STARR, CRAGIN, VOORHEES (Secretary)

### Committee on Admissions

Drs. HUNTINGTON (Chairman), PRUDDEN, JAMES, VOORHEES (Secretary)

### The Faculty

NICHOLAS MURRAY BUTLER, Ph.D., LL.D.,	<i>President</i>
JAMES W. McLANE, M.D.....	<i>Emeritus Professor of Obstetrics</i>
EDWARD CURTIS, M.D.....	<i>Emeritus Professor of Materia Medica and Therapeutics</i>
FRANCIS DELAFIELD, M.D., LL.D.....	<i>Emeritus Professor of the Practice of Medicine</i>
JOHN G. CURTIS, M.D.....	<i>Professor of Physiology, Delegate to the University Council, Acting Dean</i>
WILLIAM T. BULL, M.D.....	<i>Professor of Surgery</i>
M. ALLEN STARR, M.D., Ph.D., LL.D....	<i>Professor of Diseases of the Mind and Nervous System</i>





instruction in the various departments of Medicine and Surgery, as the professors, with their clinical assistants, have the entire charge of its practice.

The building is so arranged that each department has a room for the practical instruction to students in small sections, in addition to the rooms devoted to the treatment of patients; besides, there is a large theatre for clinical lectures and a smaller lecture hall.

All modern appliances for the treatment of diseases have been introduced, so that students can learn thoroughly the use of all methods in each department, and can thus acquire a practical knowledge of all the "specialties" in medicine.

During the year 1902-03, 45,479 patients were treated, making 148,088 visits to the Clinic.

For detailed information as to the clinical lectures held here, see the departmental statements in this volume, or the special *Announcement of the College of Physicians and Surgeons*.

### Sloane Maternity Hospital

THE SLOANE MATERNITY HOSPITAL is situated at the corner of Fifty-ninth Street and Amsterdam Avenue, and the service is under the exclusive direction of the Professor of Obstetrics in the College of Physicians and Surgeons, the Instructor in Obstetrics being the Resident Physician.

The wards of the hospital since its recent enlargement furnish one hundred and sixteen beds, and there are ample accommodations for the house staff, students, and nurses.

The operating-room is equipped with all modern surgical and obstetrical conveniences, and has seating accommodation for fifty-one students.

When possible Dr. CRAGIN holds operative clinics here.

The number of deliveries averages over fourteen hundred a year. These, with the obstetric operations and the subsequent treatment of women and infants, afford invaluable practical experience, such as is offered at no other medical school in this country.

### Clinics at the Hospitals

The College is strongly represented on the staffs of most of the general and special hospitals of New York. In them both required and optional practical instruction is given by clinical lectures, in the dispensaries, and at the bedside, all of which are prominent features of the curriculum. Admission is free to all matriculates. These hospitals are as follows: Roosevelt, Bellevue, New York, Presbyterian, St. Luke's, General Memorial, Hospital for the Ruptured and Crippled, St. Mary's Free Hospital for Children, Willard Parker and Reception, Riverside, Foundling, and the Babies' Hospital. For a detailed statement see the *Announcement of the College of Physicians and Surgeons*.

### Lectures

CARTWRIGHT LECTURES OF THE ALUMNI ASSOCIATION—According to the provisions of the Cartwright Trust, there is biennially given, under the auspices of the Alumni Association, a course of lectures more especially addressed to graduates in medicine. This course was delivered during the session of 1902-03 by RICHARD C. CABOT, M.D., of Boston.

There are also weekly lectures of scientific interest delivered by the professors of Columbia University, which are open to the undergraduates as well as to the alumni.

### General Plan of Instruction

The required period of study for the degree of Doctor of Medicine is four years.

The College exercises for the session of 1903-04 began Wednesday, September 23, and the last day of lectures is May 7, 1904.

Men alone are admitted.

The more complete the preliminary education of the student, the sooner and with the more understanding will he grasp the advanced subjects forming the groundwork of a medical course. This especially applies to the one who has had a college training and has acquired a sufficient knowledge of Physics, Chemistry, and Biology.

In the arrangement of the different branches of the instruction, a logical order of the main themes and a co-ordination in the work of each department have been sought after. The salient features in the method of instruction are a complete laboratory training, frequent demonstrations, clinical lectures in the operating theatres and at the bedside in the many hospitals, and enough didactic lectures to elucidate the many problems confronting the student.

Records of attendance and scholarship are kept for all courses, and before a student can advance with his class he must, besides passing a good examination in the subject, present certificates of satisfactory practical work.

In the *First Year* the student is drilled in the fundamental courses of Anatomy, Physiology, Histology, Physics, and Chemistry, by demonstrations to sections and by practical work in the different laboratories. Students who have pursued elsewhere courses in Physics and General Chemistry substantially equivalent to those given at this College may be exempted from the work in these departments on presentation of satisfactory certificates, or after satisfactory examinations. In place of these subjects, if they have a sufficient knowledge of Physiology as determined by the professor, they may take the course in Physiological Chemistry which is given in the second year.

In the *Second Year*, by the same methods as in the first year and systematized by a few didactic lectures, Anatomy and Physiology are taken up. The student at the same time is engaged in the study of



Physiological Chemistry, Bacteriology and Hygiene, and as preliminaries to the third and fourth years, recitations from text-books are held in the subjects of Medicine, Surgery, Obstetrics, and *Materia Medica*. Besides, courses in Physical Diagnosis and Minor Surgery are given in the Roosevelt Out-patient Department and the Vanderbilt Clinic.

During the *Third Year* recitations in Medicine and Surgery are continued, and those in Gynecology are commenced. There are didactic as well as clinical lectures in Medicine, Surgery, Therapeutics, Obstetrics, Gynecology, Nervous Diseases, and Diseases of Children, while the laboratory work in Pathology, Pathological Anatomy, and Clinical Pathology is done. The class is divided into small sections and instruction in the special branches of medicine and surgery at the various dispensaries is begun.

The student of the *Fourth Year* spends most of his time in the many hospitals and dispensaries of the city. Consequently, although a few general and clinical lectures are still given, the work is almost entirely practical and bedside instruction. Divided into small groups he comes into personal contact with the patient under the supervision of the instructor. In this way he has the opportunity to become familiar with the history, to make a complete physical examination, to form a diagnosis, to give a prognosis, to advise treatment, and to watch the progress of a case.

In Surgery the student is given an operative course, and so performs upon the cadaver the more common operations. He must spend two weeks at the Sloane Maternity Hospital, and there must attend personally a certain number of cases of labor. Finally, during this last year the course is rounded out by personal instruction in the specialties. In these branches the student is taught how to use the many instruments of precision and so recognize many of the rarer forms of disease.

### REQUIREMENTS FOR ADMISSION

All students who matriculate with the intention of becoming candidates for the degree of Doctor of Medicine must present a medical-student certificate granted by the Regents of the University of the State of New York, upon the basis of one or the other of the certificates named below:

A—(1) A certificate of having successfully completed at least one full year's course of study in a college or scientific school registered by the Regents as maintaining a satisfactory standard.

(2) A certificate of graduation from any registered gymnasium in Germany, Austria, or Russia.

(3) A certificate of the successful completion of a course of five years in a registered Italian *ginnasio* and three years in a *liceo*.

(4) The Bachelor's degree in arts or science, or its substantial equivalent conferred by any registered institution in France or Spain.



(5) Any credential from a registered institution, or from the government in any State or country, which credential represents the completion of a course of study equivalent to graduation from a registered Prussian gymnasium.

OR

B—A certificate of an examination conducted in June of any year by the College Entrance Examination Board, or of an examination conducted in September of any year under the auspices of the University Committee on Entrance Examinations of Columbia University, or in part for both of these; which examination shall conform to the following regulations:

Total requirement, 15 points.

The candidate *must* offer

English (page 197).....	counting 3 points
Elementary Mathematics (page 206).....	3 "
$\frac{1}{2}$ Elementary Latin (Latin Grammar and Composition, and either 4 books of Cæsar or 6 Orations of Cicero, or 6 books of Virgil's <i>Æneid</i> ) (page 205).....	2 "
Elementary French (page 199) } .....	" 2 "
or	
Elementary German (page 201) } .....	" 2 "
Total.....	10 "

The 5 additional points may be offered from the following subjects, the only restriction being that to offer an advanced subject will involve offering, either at the same time or earlier, the corresponding elementary subject.

Botany (page 195).....	counting 1 point
Chemistry (page 196).....	" 1 "
Drawing (page 197).....	" 1 "
Elementary French, if not offered among the 10 required points (page 199).....	" 2 points
Intermediate French (page 200).....	" 1 point
Elementary German, if not offered among the 10 required points (page 201).....	" 2 points
Intermediate German (page 202).....	" 1 point
Elementary Greek (page 203).....	" 3 points
Advanced Greek <sup>1</sup> (page 203).....	" 1 point
Elementary History (page 204).....	" 2 points
Advanced History <sup>1</sup> (page 204).....	" 1 point
$\frac{1}{2}$ Elementary Latin (6 books of Virgil's <i>Æneid</i> , Latin Composition II., and sight translation) (page 205).....	" 2 points
Advanced Latin <sup>1</sup> (page 206).....	" 1 point
Advanced Mathematics (page 207).....	" 1 "
Elementary Physics (page 207).....	" 1 "
Advanced Physics <sup>1</sup> (page 208).....	" 1 "
Physiography (page 208).....	" 1 "
Spanish (page 208).....	" 2 points
Zoölogy <sup>1</sup> (page 209).....	" 1 point

<sup>1</sup> Candidates will be examined in this subject only in September

Candidates may forward the credentials received from either or both of these examining authorities to the Secretary of the Regents of the University of the State of New York, Albany, N. Y., and if they aggregate the necessary 15 points, receive in exchange therefor the medical-student certificate required for admission to the College of Physicians and Surgeons.

Candidates who receive a grade of *C* (fair = 60 % to 75 %) in subjects amounting to not less than 12 of the 15 points offered, will be admitted conditionally, upon such condition as the Committee on Admission of the Faculty of Medicine may impose; but, in every case, conditions imposed at entrance must be removed before the student is admitted to the Second Year of the course.

Candidates who do not receive a grade of at least *C* (fair = 60 % to 75 %) in subjects amounting to at least 12 of the 15 points offered, will be rejected.

Candidates for admission conditionally are required to submit to the Committee their credits from the College Entrance Examination Board and from the University Committee on Entrance Examinations of Columbia University on or before the opening of the academic year.

For full information as to the administration of the Entrance Examinations, see pages 192-194.

#### Special Students

Students desiring to do special work at the College of Physicians and Surgeons may matriculate at any time during the year as special students. Such applicants, however, cannot subsequently become candidates for graduation at this College without full compliance with the terms of admission and graduation as set forth in this catalogue.

Special students will be required to present to the Committee on Admission before entrance evidence of (a) an adequate preliminary education, and (b) special fitness for the particular work they desire to pursue.

#### Admission to Advanced Standing

Admission may be granted to advanced standing at the beginning of the second or of the third year, but not of the fourth year without the special consent of the Faculty.

Every applicant for advanced standing will be required (1) to present evidence of having had a sufficient preliminary education, meeting the requirements of admission; (2) to present satisfactory evidence of having attended, in a recognized medical school, courses reasonably equivalent to those already attended by the class to which he seeks admission; (3) to be examined for admission in all the subjects in which the said class shall have been examined already, see page 264; (4) to matriculate with the payment of the regular matriculation fee (five dollars).

*No certificate or diploma will be accepted in lieu of these examinations for advanced standing.*

A candidate for admission to advanced standing at the beginning of the second or third year may be so admitted either unconditionally or conditionally. In the latter case, his admission will be upon the same terms as govern students who have pursued at this College the curriculum of the first or second year.

During the week before the opening of the session there will be held examinations upon the work done during the previous session in each department of the first, second, and third years of the course, which examinations will be open both to candidates found deficient at the end of the previous session, and to candidates for admission to advanced standing at the beginning of the second, third, or fourth year.

Each student intending to present himself for these examinations in 1904 must register his name in person at the Secretary's Office, on Friday, September 10, between 2 and 3 p.m.

### **Registration**

(See page 21)

### **Fees**

(See page 22)

### **BOARD**

Information in regard to board can be obtained through the Assistant Registrar, Mr. E. T. Boag, at his office in the Medical School. Prices range from \$5 to \$9 per week.

### **CORRESPONDENCE**

Letters requesting information should be addressed to Secretary of the Faculty, 437 West Fifty-ninth Street, New York.

### **REQUIREMENTS FOR GRADUATION**

Every candidate in the four-year course will be required before admission to the degree of M.D.

1. To present satisfactory evidence, as required by law, of good moral character, and of having attained the age of twenty-one years.

2. To present evidence of having complied with the requirements for admission.

3. To have attained to satisfactory standing in the required studies of the four years of the curriculum.

4. A candidate who shall have been admitted to advanced standing will be required to have spent not less than four academic years at the studies referred to in the clause next preceding; and to have complied successfully with the requirements for admission to advanced standing.

No two academic years which shall have begun during the same calendar year will be held to satisfy the requirements of the above clause.

## COURSE OF STUDY LEADING TO THE DEGREE OF M.D.

(A much more detailed summary will be found in the special *Announcement of the College of Physicians and Surgeons*. The *Announcement* also gives full information as to the method whereby the standing of a student is determined at the end of each of the four years of the course.)

FIRST YEAR	SECOND YEAR	THIRD YEAR	FOURTH YEAR
Physics 3 <sup>1</sup> Chemistry 2 Anatomy 2, 3, 5, and 10 Normal Histology 1 Physiology 2, 3, and 4 <i>Examinations upon the work of the first year</i>	Anatomy 1, 6, 7, 8, and 9 Physiology 2, 3, 4 Pathology 1 Bacteriology and Hygiene 1 Materia Medica and Therapeutics 1, 3, 4 Obstetrics 2 Practice of Medicine 8 Physiological Chemistry, 1 Surgery, 3, 9 <i>Examinations upon the work of the second year</i>	Materia Medica and Therapeutics 2 <sup>1</sup> Pathology 2, 3 Practice of Medicine 1, 2, 4, 7, 8 <sup>1</sup> Neurology 1 <sup>1</sup> Surgery 1, 2, 4, 7, 8 <sup>1</sup> Obstetrics 1 Gynecology 1, 2 Genito-Urinary Diseases 1, 2, 3 Ophthalmology 1, 2 Otology 1, 2 Diseases of Children, 1, 4 Clinical Pathology 1 <i>Examinations upon the work of the third year</i>	Practice of Medicine 1, 2, 3, 5, 6 Neurology 1, 2, 3, 4 Surgery 1, 5, 6, 8 <sup>1</sup> Orthopedic Surgery 1, 2 Obstetrics 3 Gynecology 3, 4 Dermatology 1, 2 Diseases of Children 2, 3, 5 Laryngology 1, 2, 3 <i>Examinations upon the work of the fourth year</i>

<sup>1</sup> In all subjects which are not completed in a single year, the instruction offered to a given student is different each year

Consult the departmental statements (pp. 63-101) for

(1) The scope of each course, the number of hours required for it, and the instructors giving it;

(2) Information regarding the courses open to special (graduate) students in medicine;

(3) Courses which may be counted towards the degrees of A.M. and Ph.D.

Students who have pursued elsewhere courses in Physics and General Chemistry substantially equivalent to those given at this College, may be exempted from the work in those subjects on presentation of satisfactory certificates, or after satisfactory examination. In view of this fact students intending to pursue the study of medicine are recommended, in their preliminary education, to take thorough courses in Physics and Chemistry, including laboratory work in each.



### THE DEGREE OF MASTER OF ARTS

The attention of students of Medicine is directed to Rule 10 of the Regulations for the Higher Degrees (page 215).

Students in the School of Medicine who are candidates for the degree of Master of Arts, under the provisions of this regulation, are subject to the regulations of the faculty of Philosophy, Political Science, or Pure Science, under which the extra work is taken, and which finally recommends the candidates for the degree. Such students should apply to the Dean of the appropriate faculty for a registration-book before taking up their work.

### SCHOLARSHIPS, FELLOWSHIPS, AND PRIZES

For the Alonzo Clark Scholarship, see page 46.

For the University Fellowships, see page 30.

For the Alumni Association Fellowships, see page 46.

For the Proudfit Fellowship, see page 47.

For the Harsen Scholarships, see page 47.

For the Alumni Association Prize, see page 47.

For the Cartwright Prize, see page 47.

For the Stevens Triennial Prize, see page 48.

For the Joseph Mather Smith Prize, see page 48.

### EQUIPMENT AND COLLECTIONS

Detailed information as to the laboratories, collections, and other facilities for study will be found in the statements of the various departments of instruction, pages 63-191, and more fully in the *Announcement of the College of Physicians and Surgeons*.

### REQUIREMENTS FOR LICENSE TO PRACTISE MEDICINE IN NEW YORK STATE

For information, see the *Announcement of the College of Physicians and Surgeons*.

### SUMMER SESSION IN MEDICINE

Practical courses in medicine, varying from three to six weeks in length, for the benefit of practising physicians who desire opportunities for additional study and investigation, as well as for that of properly qualified students of medicine and surgery, are given from May until September of each year.

A general statement of the work offered will be found in connection with the statement of the Summer Session (see the Table of Contents) this volume, and a detailed announcement, showing the scope of each course, the conditions under which it is given, and the fee charged, will be sent upon application to the Secretary of Columbia University, New York City.

Students who have satisfactorily completed the practical clinical courses in this Summer Session may be excused from equivalent courses required for the degree of M.D.

## REGISTER OF STUDENTS

### College of Physicians and Surgeons

#### FOURTH YEAR CLASS

ADAMS, ROBERT ALBERT.....	(Mhtn) New York City College of the City of New York, A.B., 1900.
ALLEN, ALBERT HENRY.....	Columbus, Ga. Emory College, Ph.B., 1895.
ALLEN, BENJAMIN GILL.....	Bobbitt, N. C. Trinity College, A.B., 1900.
ARMINGTON, HERBERT HAMLIN.....	Providence, R. I. Brown University, A.B., 1900.
ARONSON, LOUIS SIMON.....	(Mhtn) New York City
ASSENHEIMER, EDWARD MINTURN.....	(Mhtn) New York City
AVERY, OSWALD THEODORE.....	(Mhtn) New York City Colgate University, A.B., 1900.
BANDLER, CLARENCE GARFIELD.....	(Mhtn) New York City
BANISTER, ROBERT LOUIS.....	Newark, N. J.
BARNERT, CYRIL.....	Paterson, N. J.
BARTRUM, WILLIAM C.....	Newburgh, N. Y.
BELL, ALLISTER MACDONALD.....	Orange, N. J. Yale University, A.B., 1900.
BIEGELEISEN, JOSEPH ZACHARY.....	(Mhtn) New York City
BLACK, MICHAEL FRANCIS.....	Williamstown, Mass. Williams College, A.B., 1900.
BLANCARD, WILLIAM.....	(Mhtn) New York City
BLAUNER, SAMUEL.....	(Mhtn) New York City College of the City of New York, B.S., 1900.
BOESE, WILLIAM HENRY.....	(Mhtn) New York City Columbia University, A.B., 1901.
BONDY, JULIUS.....	Hartford, Conn.
BOPP, WALTER FREDERICK.....	(Mhtn) New York City College of the City of New York, A.B., 1900.
BOWMAN, JAMES FLOYD.....	Montclair, N. J. Columbia University, A.B., 1900.
BRAND, ADOLPH.....	(Mhtn) New York City
BRANOWER, WILLIAM.....	(Mhtn) New York City
BREED, ROBERT HUNTINGTON.....	Cornwall, N. Y.
BURROWS, WATERS FIELD.....	Elizabeth, N. J. Columbia University, A.B., 1901.
CARTER, ROBERT WILLIAM.....	Montclair, N. J. Princeton University, A.B., 1900.
CHERRY, THOMAS HARRIS.....	(Mhtn) New York City
CHESSMAN, FRANK NEWHALL.....	Helena, Mont.
CLARK, WILLIAM IRVING, Jr.....	(Mhtn) New York City Columbia University, A.B., 1900.

- CLEGHORN, CHARLES DALTON.....Manchester, Vt  
Princeton University, B.S., 1900.
- COERR, FREDERIC DAN HUNTINGTON.....(Mhtn) New York City  
Columbia University, A.B., 1900.
- COHN, ALFRED EINSTEIN.....(Mhtn) New York City  
Columbia University, A.B., 1900.
- COMMISKEY, LEO JOHN JOSEPH.....(Bklyn) New York City
- COOK, EDWARD.....(Mhtn) New York City  
Harvard University, A.B., 1900.
- COOKE, ROBERT ANDERSON.....New Brunswick, N. J  
Rutgers College, A.B., 1900.
- COWAN, JAMES ALBERT.....(Mhtn) New York City  
Rome, Italy, Ph.B., 1890, Ph.D., 1891.
- CRAIG, HENRY AUGUSTUS.....New Germantown, N. J.
- CRAMP, WALTER CONCERNORE.....(Mhtn) New York City  
Colgate University, A.B., 1900.
- CUSSLER, EDWARD.....Catskill, N. Y.
- DATTELBAUM, MORRIS JACOB.....(Bklyn) New York City
- DAVIDSON, ISIDOR.....(Mhtn) New York City  
College of the City of New York, A.B., 1900.
- DEKOVEN, BERNARD.....(Mhtn) New York City
- DIEFFENBACH, RICHARD HAGEN.....Newark, N. J.
- DINGMAN, JOHN CLARENCE.....Spring Valley, N. Y.
- DINGMAN, THOMAS ALVA.....Spring Valley, N. Y.
- DOLPHIN, BENJAMIN EDWARD.....(Mhtn) New York City
- DUCKETT, WARREN JAMES.....Skaneateles, N. Y.
- DUDLEY, BENJAMIN WILLIAM.....Lexington, Ky.
- DUNCAN, OWSLEY BENNETT.....Paterson, N. J.
- EASTMOND, CHARLES.....(Bklyn) New York City  
Columbia University, A.B., 1901.
- EICHHORN, HERMAN.....(Mhtn) New York City  
College of the City of New York, B.S., 1900.
- EVANS, ARCHIBALD PARKER.....(Bklyn) New York City
- EYTINGE, ERNEST OLIVER JOSEPH.....(Mhtn) New York City
- FASSETT, EDWIN CHARLES.....Kingston, N. Y.
- FICHTER, LOUIS.....(Mhtn) New York City
- FINKELSTIEN, HARRY.....(Mhtn) New York City
- FLAKS, ARY.....(Mhtn) New York City
- FLATTO, ISADORE.....(Mhtn) New York City
- FLYNN, DAVID JOSEPH.....Boston, Mass.  
Georgetown University, A.B., 1900.
- FREEMAN, JAMES VOORHEES, Jr.....Sewaren, N. J.  
Harvard University, A.B., 1901.
- FREY, DAVID INGHAM.....(Mhtn) New York City
- GAIN, JOHN CAMERON.....Toronto, Canada
- GELLERT, SAMUEL.....(Mhtn) New York City
- GHIGLIONE, AUGUST JOSEPH.....(R) New York City
- GLANZ, HYMAN.....(Mhtn) New York City  
College of the City of New York, A.B., 1900.
- GOLDSTONE, KARL HAROLD.....(Mhtn) New York City
- GRAHAM, CLARENCE MINTURN.....Poughkeepsie, N. Y.
- GREENWAY, JAMES COWAN.....Hot Springs, Ark.  
Yale University, A.B., 1900.
- GRUSSNER, ALBERT.....(Mhtn) New York City
- GUTHERSON, WILLIAM FRANCIS.....Paterson, N. J.  
New York University, B.S., 1900.

- HALE, GORDON DYER.....Providence, R. I.  
Brown University, Ph.B., 1899.
- HAMILL, PATRICK JOSEPH PAUL.....Jersey City, N. J.  
St. Peter's College, A.B., 1898, A.M., 1899.
- HANCE, JOSEPH CAMPBELL.....New Philadelphia, O.  
HARDENBERG, DANIEL SAYER, Jr.....Jersey City, N. J.
- HARRIS, BURTON SEYMOUR.....Westfield, N. J.
- HART, ALFRED JOHN.....(Mhtn) New York City
- HASTIE, JOHN DEARBORN.....Kemmerer, Wyo.  
University of Nebraska, A.B., 1899.
- HENNEN, WILLIAM DAVISON.....(Mhtn) New York City
- HERVEY, ALLAN MOORE.....(Mhtn) New York City  
Harvard University, A.B., 1896.
- HIBLER, GEORGE HUNT.....Morristown, N. J.
- HOLMES, CLARENCE ALBERT.....(Br) New York City  
New York University, B.S., 1900.
- HOLTHAUSEN, WILLIAM FREDERICK.....(Bklyn) New York City
- HOOD, PHILIP GARFIELD.....Newark, N. J.
- HOOKER, HARRY LYMAN.....(Mhtn) New York City
- HOROWITZ, BENJAMIN.....(Mhtn) New York City  
College of the City of New York, A.B., 1900.
- HOROWITZ, PHILIP.....(Mhtn) New York City
- HULL, ALLEN.....(Bklyn) New York City
- HULL, EDWARD TAYLOR.....Southport, Conn.  
Boston University, B.S., 1900.
- HUSSEY, FREDERIC VINAL.....Franklin, Mass.  
Brown University, Ph.B., 1900.
- ISON, VIRGIL STROTHER.....Baker City, Ore.
- JACOBS, LOUIS.....(Mhtn) New York City
- JARCHO, JULIUS.....(Mhtn) New York City
- JEFFREY, STEWART LEE.....(Mhtn) New York City
- KATZ, DAVID.....(Mhtn) New York City
- KEEGAN, THOMAS DANIEL.....Jersey City, N. J.
- KIMBALL, CLEAVELAND CADY.....(Mhtn) New York City  
Amherst College, A.B., 1900.
- KRESHOVER, JACOB SIEGFRIED.....(Mhtn) New York City
- KUDLICH, HANS EDGAR.....(Mhtn) New York City  
College of the City of New York, A.B., 1900.
- LATHROP, HAROLD WILKINSON.....Livingston Manor, N. Y.
- LATHROP, GEORGE HAINES.....Scranton, Pa.  
Princeton University, A.B., 1900.
- LEAVITT, EMANUEL JOSEPH.....(Mhtn) New York City
- LEGGETT, NOEL BLEECKER.....(R) New York City
- LEVY, JULIUS.....Newark, N. J.
- LITTELL, ELTON GARDINER.....(Mhtn) New York City  
Trinity College, Conn., A.B., 1899.
- LOHMAN, WILLIAM HENRY.....(Bklyn) New York City
- LONG, JAMES MCMASTER.....Pittsburg, Pa.  
Yale University, A.B., 1900.
- LORENZO, FRANK ALEXANDER.....Punxsutawney, Pa.
- MCNENNEY, CLAUDE EMMET.....Jersey City, N. J.  
St. Peter's College, A.B., 1900.
- McSHEEHY, MORGAN THOMAS.....Whitinsville Mass.  
Holy Cross College, A.B., 1899.



- MALCOLM, JOSEPH DOUGLAS.....(Mhntn) New York City  
 MASON, HOWARD HARRIS.....Providence, R. I.  
     Brown University, A.B., 1900.
- MEHLER, GEORGE JOHN.....(Mhntn) New York City  
 MEYER, GUY HERBERT.....Paris, Tex.  
 MEYER, JULIAN JACQUES.....(Mhntn) New York City  
     College of the City of New York, A.B., 1898.
- MINER, LUCIEN LUTTRELL.....(Mhntn) New York City  
 MITTENDORF, ALFRED DERBY.....(Mhntn) New York City  
     Princeton University, A.B., 1900.
- MOELLER, HENRY NICHOLAS.....(Mhntn) New York City  
 MOFFIT, ALBERT ROWCLIFFE.....Princeville, Ill.  
     Williams College, A.B., 1898.
- MOORHEAD, ROBERT LOWRY, Jr.....(Bklyn) New York City  
 MORSCH, HENRY WILLIAM.....(Bklyn) New York City  
 MURPHY, EDWARD JOHN.....(Bklyn) New York City  
     Holy Cross, College A.B., 1900.
- MYRES, MAGNUS JACOB.....(Mhntn) New York City  
 NEEF, FREDERICK EMIL.....Springfield, Ill.  
     Notre Dame University, B.S., 1892, B.L., 1893, M.L., 1895.
- NOBLE, URBANE ALEXANDER.....(Mhntn) New York City  
 O'CONNOR, JOHN CHARLES.....Rochester, N. Y.  
 O'CROWLEY, CLARENCE RUTHERFORD.....Newark, N. J.  
 O'LEARY, WILLIAM JOSEPH.....Canandaigua, N. Y.  
 PADDOCK, BRACE WHITMAN.....Pittsfield, Mass.  
     Yale University, A.B., 1900.
- PENTZ, JAMES BOLTON.....(R) New York City  
 PETERS, JOHN DODGE.....Great Barrington, Mass.  
     Yale University, A.B., 1900.
- PILCHER, JAMES TAFT.....(Bklyn) New York City  
     University of Michigan, A.B., 1902.
- PINCUS, WILLIAM.....(Bklyn) New York City  
 RINGER, PAUL HENRY.....(Mhntn) New York City  
     Columbia University, A.B., 1901.
- ROBINSON, ROBERT CORNELIUS.....Providence, R. I.  
     Brown University, Ph.B., 1900.
- ROSE, JULIUS TOWNSEND.....Stephentown, N. Y.  
 ROSS, EDWARD KINGSBURY.....Hoboken, N. J.  
     New York College of Pharmacy, Ph.G., 1899.
- ROSS, WILLIAM HOLMES.....(Bklyn) New York City  
 ROYALL, EDSON DAVIDGE.....Lebanon, Conn.  
 SARTORI, ANTONIO JOSEPH.....(Mhntn) New York City  
 SAUNDERS, TRUMAN LAURENCE.....(Mhntn) New York City  
     Williams College, A.B., 1900.
- SCHENCK, GEORGE HENRY.....East Hampton, N. Y.  
     Lafayette College, Ph.B., 1900.
- SCHLIVEK, KAUFMAN.....(Mhntn) New York City  
     College of the City of New York, B.S., 1900.
- SCHÜCK, TRAUGOTT JOHN.....Hoboken, N. J.  
 SHERMAN, ARTHUR LEIGHTON.....Castleton, Vt.  
     Yale University, A.B., 1900.
- SILLIMAN, JOHN CALVIN.....Palestine, Tex.  
     University of Virginia, A.B., 1898.
- SLACK, JOSEPH DANIEL.....Litchfield, Conn.  
 SMITH, ELLSWORTH JOHNSON.....North Haven, Conn.  
     Yale University, Ph.B., 1900.

- SPRAGUE, CHARLES HARRY.....Peterboro, N. H.  
 STEVENS, CAROL TEFFT.....New Rochelle, N. Y.  
 Iowa State College, B.S., 1898.  
 STEWART, VERNON CHAMPNEY.....(Mhtn) New York City  
 Columbia University, A.B., 1901.  
 STILLMAN, CHARLES KIRTLAND.....Mystic, Conn.  
 Brown University, Ph.B., 1900.  
 TALMAGE, JOHN BEEKMAN, Jr.....(Mhtn) New York City  
 TASCHMAN, MAX.....(Mhtn) New York City  
 College of the City of New York, A.B., 1899.  
 THOMAS, JOSEPH SIMON.....Dunellen, N. J.  
 Princeton University, A.B., 1899.  
 THOMAS, MERRICK DOWDELL.....Gold Hill, Ala.  
 Alabama Polytechnic Institute, B.S., 1897.  
 VANAMEE, TALCOTT OSTROM.....Newburgh, N. Y.  
 Hamilton College, A.B., 1900.  
 VANDENBERG, JOSEPH.....(Mhtn) New York City  
 VANDER VEER, ALBERT, Jr.....Albany, N. Y.  
 Yale University, A.B., 1900.  
 VAUGHAN, HAROLD STEARNS.....(Mhtn) New York City  
 University of Pennsylvania, D.D.S., 1899.  
 WAINWRIGHT, JOHN MAXON BROWN.....Brielle, N. J.  
 WALSER, CARL WILLIAM.....(R) New York City  
 WARD, ALBERT HAMILTON.....Paterson, N. J.  
 WARD, EDWIN ST. JOHN.....Amherst, Mass.  
 Amherst College, A.B., 1900.  
 WARD, RALPH FRANCIS.....(Mhtn) New York City  
 WARD, WILBUR.....Bloomfield, N. J.  
 Williams College, A.B., 1900.  
 WATERMAN, WHITNEY.....Greenwich, Conn.  
 WEINSTOCK, LOUIS.....(Mhtn) New York City  
 WEIR, CLAUD HILL.....Raleigh, N. C.  
 WHEELER, JAMES ALEXANDER.....Skaneateles, N. Y.  
 WHITON, WALTER HUMSTONE.....(Bklyn) New York City  
 WIENER, SOL.....(Mhtn) New York City  
 College of the City of New York, A.B., 1900.  
 WILSON, FREDERIC HART.....(Bklyn) New York City  
 WISE, FRED.....(Mhtn) New York City  
 WISE, LESTER DRUMMOND.....(Bklyn) New York City  
 WOODRUFF, ISAAC OGDEN, Jr.....(Mhtn) New York City  
 College of the City of New York, A.B., 1900.  
 WOODSON, CHARLES WHITEHEAD.....Salisbury, N. C.  
 Columbia University, A.B., 1900.  
 WYNNE, SHIRLEY WILMOTTE.....(Mhtn) New York City  
 YORK, HARRY JACOB.....Warriorsmark, Pa.  
 Pennsylvania State College, B.S., 1900.  
 ZELENKO, DAVID.....(Bklyn) New York City  
 Fourth Year Class..... 178

## THIRD YEAR CLASS

- AGOSTINI, VICTORIANO DIEGO Y GODOY.....Santiago, Cuba  
 Provincial Institute, Santiago, A.B., 1893.  
 ALLERS, CHARLES LAWRENCE.....(R) New York City  
 ARMSTRONG, EDGAR BOND.....Paterson, N. J.  
 AUCHINCLOSS, HUGH.....(Mhtn) New York City  
 Yale University, A.B., 1901.

- AUERBACH, JULIUS.....(Mhtn) New York City  
 BARKER, PERCEVAL MARTIN.....(Mhtn) New York City  
 BARRETT, FREDERICK JAMES.....(Bklyn) New York City  
 BARTLETT, FREDERIC HUNTINGTON.....Fayetteville, N. Y.  
     Harvard University, A.B., 1895.  
     Columbia University, A.M., 1898.  
 BARTOW, CLARENCE WHITTEMORE.....(Q) New York City  
     Columbia University, A.B., 1902.  
 BAUMGARD, HANS GEORGE.....(Mhtn) New York City  
     New York University, B.S., 1901.  
 BENNETT, JOHN ALBERT.....(Mhtn) New York City  
 BERNSTEIN, LUIS PHILLANDUS.....(Mhtn) New York City  
     College of the City of New York, B.S., 1901.  
 BLACK, ROSS ELIOTT.....Huntington, Penn.  
 BOCKSHITZKY, BENJAMIN JOSEPH.....(Mhtn) New York City  
 BONIME, ELLIS.....(Mhtn) New York City  
 BONYNGE, HENRY ARTHUR, Jr.....Hoboken, N. J.  
 BOURKE, JOHN FRANCIS.....(Mhtn) New York City  
 BOYD, CARLISLE STORM.....(Br) New York City  
 BOYD, WILLIAM BALLANTINE.....(Mhtn) New York City  
     College of the City of New York, B.S., 1897.  
 BRADY, JOHN STANISLAUS.....(Mhtn) New York City  
     Georgetown University, A.B., 1901.  
 BRAUN, JACOB.....(Mhtn) New York City  
 BROWN, ROBERT MERIDA.....Lamar, Mo.  
     Harvard University, A.B., 1901.  
 BRUNDAGE, PHILIP EDWIN.....Hoboken, N. J.  
     Princeton University, A.B., 1900.  
 BRUNING, HENRY FREDERICK.....(Bklyn) New York City  
 BRYANT, MASON DAVID.....Lowell, Mass.  
 BUCONS, LOUIS.....(Mhtn) New York City  
 CHAMBERLAIN, AMIS READING.....Warwick, N. Y.  
     Yale University, A.B., 1901.  
 CHAMBERS, JOHN S. DAVIS.....(Mhtn) New York City  
 CHILDS, JOHN HENRY.....Paterson, N. J.  
 CLARKE, LOUIS VINCENT.....Pawtucket, R. I.  
 COHEN, HERMAN.....(Br) New York City  
 COHEN, LOUIS.....(Bklyn) New York City  
 COLIE, EDWARD MARTIN, Jr.....East Orange, N. J.  
     Columbia University, A.B., 1902.  
 CONLON, PATRICK JOSEPH.....Worcester, Mass.  
     Holy Cross College, A.B., 1901.  
 CORCORAN, DAVID.....Thompson Ridge, N. Y.  
 CORDNER, ROBERT.....Middletown, N. Y.  
     New York College of Pharmacy, Ph.G., 1895.  
 COTTLE, GEORGE FRANKLIN.....(Mhtn) New York City  
     College of the City of New York, B.S., 1898.  
 CRONIN, EUGENE JOHN.....Worcester, Mass.  
 DAVID, CHARLES THOMAS.....(Mhtn) New York City  
 DEKLYN, CHARLES CAMPBELL.....(Mhtn) New York City  
 DEROW, DAVID.....(Mhtn) New York City  
 DICKINSON, FRANCIS MCLEAN.....Rockville, Conn.  
     Yale University, Ph.B., 1900.  
 DODD, SAMUEL WARD.....Newark, N. J.  
     Princeton University, B.S., 1901.

- DRISCOLL, GEORGE CORNELIUS.....Stanley, N. Y.  
 DWIGHT, KIRBY.....(Mhtn) New York City  
 Princeton University, A.B., 1901.
- EMORY, GEORGE BACHE.....Syracuse, N. Y.  
 Harvard University, A.B., 1902.
- FIASCHI, PIERO.....Sydney, Australia  
 FRANKEL, EDWARD, JR.....(Mhtn) New York City  
 FRIEDMAN, HENRY MENDEL.....(Mhtn) New York City  
 FRITTS, HERBERT HAROLD.....Bradford, Pa.  
 Oberlin College, A.B., 1898.
- FRUCHT, SIMON.....(Mhtn) New York City  
 College of the City of New York, B.S., 1900.
- FRUCHTHANDLER, EDWARD ALFRED.....(Mhtn) New York City  
 GASKINS, JOHN DARBY.....Starke, Fla.  
 GERSTER, JOHN CARL ARPAD.....(Mhtn) New York City  
 Columbia University, A.B., 1902.
- GINSBURGH, EDWARD LYON.....(Mhtn) New York City  
 GOLDFARB, SAMUEL JESSE.....(Mhtn) New York City  
 GRAHAM, HENRY FLACK.....Albany, N. Y.  
 HABERMAN, JULIUS VICTOR.....(Mhtn) New York City  
 HAGEN, ORVILLE REED.....Troy, N. Y.  
 HAMBURGER, GABRIEL.....(Mhtn) New York City  
 College of the City of New York, A.B., 1901.
- HARBECK, CHARLES JOHN.....(Mhtn) New York City  
 Harvard University, A.B., 1900.
- HARRIGAN, ANTHONY HART.....(Bklyn) New York City  
 HARRIS, LOUIS ISRAEL.....(Mhtn) New York City  
 HART, FRANCIS BERNARD.....Passaic, N. J.  
 HARWICH, MOSES.....(Mhtn) New York City  
 HAYES, PLINY HAROLD.....(Mhtn) New York City  
 Yale University, A.B., 1900.
- HAYS, HAROLD M.....(Mhtn) New York City  
 HEIMANN, WALTER JAMES.....(Mhtn) New York City  
 Columbia University, A.B., 1901.
- HEIN, THEODORE LEACRAFT.....(Mhtn) New York City  
 HEINE, JOSEPH.....(Mhtn) New York City  
 HELLMAN, ALFRED MYER.....(Mhtn) New York City  
 Columbia University, A.B., 1902.
- HITLIN, ALEXANDER.....(Bklyn) New York City  
 HOLLAND, HARRY STEERS.....(Mhtn) New York City  
 Columbia University, A.B., 1902.
- HUNT, CHARLES SPAULDING.....Brooklyn, Conn.  
 HUTCHESON, ALLEN CARRINGTON.....Houston, Tex.  
 University of Virginia, A.B., 1900.
- HUTCHINSON, ROBERT HAMILTON, JR.....(Mhtn) New York City  
 HUTTON, ARTHUR LEFFERTS.....(Mhtn) New York City  
 HYAMS, JOSEPH ANDREW.....(Mhtn) New York City  
 HYMAN, ABRAHAM.....(Mhtn) New York City  
 ISKOWITZ, HENRY.....(Mhtn) New York City  
 JACKSON, ALBERT F.....Campgaw, N. J.  
 JAFFIN, ABRAHAM EZRA.....Jersey City, N. J.  
 JAMESON, JAMES WALKER.....Antrim, N. H.  
 Princeton University, A.B., 1901.
- JOHNSTON, MARIUS EARLY.....Lexington, Ky.  
 Kentucky State College, B.S., 1900, M.S., 1901.



- JOYCE, EDWARD RAPHAEL.....Lewiston, Me.  
Holy Cross College, A.B., 1901.
- KAEMPFER, LOUIS GABRIEL.....(Mhtn) New York City  
College of the City of New York, B.S., 1900.
- KALISKI, DAVID JOHN.....(Mhtn) New York City
- KANTER, JOSEPH BERNARD.....(Mhtn) New York City
- KAUNITZ, JULIUS.....(Mhtn) New York City
- KELLER, JACOB ADLAI.....(Mhtn) New York City
- KELLER, SIDNEY CLARENCE.....Newark, N. J.
- KEUNE, HARRY.....(Mhtn) New York City
- KOFF, JAMES JESSAI.....(Mhtn) New York City
- KOHN, BERNARD.....(Mhtn) New York City
- KRUMWIEDE, CHARLES, Jr.....(Mhtn) New York City  
Columbia University, A.B., 1900.
- KURPICK, CONRAD FREDERICK.....Paterson, N. J.  
St. Peter's College, A.B., 1901.
- KUTSCHER, MARTIN.....(R) New York City
- LATTA, JEFFERSON BROWN.....Friendship, N. Y.
- LESLIE, CHARLES THOMAS.....(Bklyn) New York City  
Massachusetts Agricultural College, B.S., 1901.
- LEVANT, HARRY LAZAROUS.....(Mhtn) New York City
- LEVIN, CHARLES.....(Mhtn) New York City
- LEVY, HARRY.....Johns, Ala.  
University of Alabama, A.B., 1901.
- LEWIS, MURNEY EDWARD.....Volney, N. Y.
- LINDSAY, GORDON.....(Mhtn) New York City  
New York College of Pharmacy, Ph.G., 1897.  
Columbia University, B.S., 1901.
- LIPSCHUTZ, JACOB MAXIMILIAN.....(Mhtn) New York City
- McCOY, THOMAS CRESAP.....Kirkwood, Del.
- McCROSKERY, JAMES HARRY.....Union, N. J.
- McDERMOTT, JOSEPH ZIMMERMANN.....Freehold, N. J.
- MABEY, J. CORWIN.....Montclair, N. J.
- MACDONALD, ARTHUR FRANCIS.....Waterbury, Conn.
- MACINTYRE, CLIFFORD BURNETT.....(Mhtn) New York City  
Columbia University, A.B., 1902.
- MARGULIES, ALBERT CARLYLE.....(Bklyn) New York City
- MARTIN, NATHAN BARNERT.....Paterson, N. J.
- MARTLAND, HARRISON STANFORD.....Newark, N. J.  
Western Maryland College, A.B., 1901.
- MEINZER, MARTIN STÖETZEL.....South Amboy, N. J.  
Rutgers College, B.S., 1901.
- MELONEY, LESTER FOYE.....Clifton, N. J.
- MERRILL, GEORGE ADAMS.....(Mhtn) New York City  
College of the City of New York, A.B., 1901.
- MEYER, HARRY AHREND.....(Mhtn) New York City
- MOGULESKO, JULIUS LAURANCE.....(Mhtn) New York City
- MOUNT, WALTER BARCLAY.....East Orange, N. J.  
Princeton University, A.B., 1901.
- NARINS, WILLIAM.....(Mhtn) New York City
- NEER, FRANK YEOMANS.....Paterson, N. J.
- NELSON, JOHN FRANCIS.....(Mhtn) New York City
- NEMOITIN, JACOB.....(Mhtn) New York City
- NEUHOF, HAROLD.....(Mhtn) New York City
- NEUWELT, LOUIS.....(Mhtn) New York City  
College of the City of New York, A.B., 1901.

- NEWMAN, REUBEN.....(Mhtn) New York City  
 NISSELSOHN, MAX.....(Mhtn) New York City  
 NOEHRN, ALFRED HENRY.....(Mhtn) New York City  
 College of the City of New York, A.B., 1900.  
 ORLANDO, JAMES.....(Mhtn) New York City  
 OTTENBERG, REUBEN.....(Mhtn) New York City  
 Columbia University, A.B., 1902.  
 PARK, EDWARDS ALBERT.....Gloversville, N. Y.  
 Yale University, A.B., 1900.  
 PARKER, LEO AMBROSE.....Portsmouth, Va.  
 Rock Hill College, A.B., 1898.  
 PETTIT, ROBERT WALTER.....New Brunswick, N. J.  
 Rutgers College, A.B., 1900.  
 Yale University, A.M., 1901.  
 PILLOW, JAMES HARGRAVES.....Helena, Ark.  
 University of Virginia, A.B., 1900.  
 POWERS, MARTIN THOMAS.....Oxford, N. Y.  
 POZDENA, OTTO RUDOLF.....(Mhtn) New York City  
 PRENTISS, RALPH NEWBERRY.....(Mhtn) New York City  
 Baltimore Medical College, M.D.  
 PRESCOTT, CHARLES IRVILLE.....Meredith, N. H.  
 Dartmouth College, B.L., 1901.  
 PUMYEA, P. CLINTON.....Allentown, N. J.  
 Princeton University, B.S., 1901.  
 QUINN, CHARLES MICHAEL.....Milwaukee, Wis.  
 RADGIK, BENJAMIN.....(Bklyn) New York City  
 College of the City of New York, B.S., 1900.  
 RICKETTS, HENRY ERNEST.....Poughkeepsie, N. Y.  
 ROMANO, SALVATORE CRISENZA.....(Mhtn) New York City  
 ROSENBERG, ABRAHAM.....(Mhtn) New York City  
 ROSENHECK, CHARLES.....(Mhtn) New York City  
 ROSENSTEIN, HENRY.....(Mhtn) New York City  
 RUBIN, ISIDOR.....(Mhtn) New York City  
 RYAN, RALPH.....Sharon, Conn.  
 Yale University, A.B., 1902.  
 RYAN, SYLVESTER EDWARD.....Springfield, Mass.  
 ST. JOHN, WARREN WALLACE.....Centre Brunswick, N. Y.  
 SANDERS, GEORGE.....(Mhtn) New York City  
 New York University, LL.M., 1897.  
 SCHAEFER, EUGENE PAUL.....Newark, N. J.  
 SCHAPIRO, JOSEPH.....(Mhtn) New York City  
 College of the City of New York, B.S., 1901.  
 SCHAYER, MAX.....(Mhtn) New York City  
 SCHULMAN, MAXIMILIAN.....(Bklyn) New York City  
 SCHUR, CARL.....(Mhtn) New York City  
 SCHWARTZ, DAVID BARNETTE.....(Bklyn) New York City  
 SCHWARTZ, MYER EASER.....(Mhtn) New York City  
 SEROTA, HARRY MOSES.....(Mhtn) New York City  
 SHAPIRO, ABRAHAM ISADORE.....Yonkers, N. Y.  
 SHENSTONE, NORMAN STRAHAN.....Toronto, Ont., Canada  
 Toronto University, A.B., 1901.  
 SMITH, GEORGE MILTON.....(Mhtn) New York City  
 Yale University, A.B., 1901.  
 SMITH, JOSEPH JACOB.....Hudson, N. Y.  
 SMITH, MALCOLM EADIE.....(Bklyn) New York City

SMITH, STAFFORD BAKER.....	Hyannis, Mass.
SMITH, WILLIAM SIDNEY.....	Yaphank, N. Y.
SODEN, GEORGE ARTHUR.....	Newark, N. J.
SOLLEY, FRANK DEMMING.....	Bethel, Conn.
STARR, ISAAC PHILIP.....	(Mhntn) New York City
STEVENS, HARRY HARRINGTON.....	Yonkers, N. Y.
New York College of Pharmacy, Ph.G., 1899.	
SWIFT, MILNE BARKER.....	Fall River, Mass.
TERRY, WALTER RAYMOND.....	Patchogue, N. Y.
Wesleyan University, A.B., 1901.	
TIFFANY, WILLIAM JAMES.....	Richford, N. Y.
TOWNSHEND, RAYNHAM.....	New Haven, Conn.
Yale University, Ph.B., 1900.	
TULIPAN, LOUIS.....	(Mhntn) New York City
VALENTINE, JULIUS JOHN.....	(Mhntn) New York City
VEVE, JOHN.....	(Mhntn) New York City
Porto Rico University, A.B., 1897.	
VILLOLDO, PEDRO.....	Havana, Cuba
VOLK, MAX.....	(Mhntn) New York City
VOORHEES, IRVING WILSON.....	Griggstown, N. J.
Princeton University, B.S., 1901.	
WERTHEIM, LEO.....	(Bklyn) New York City
WHITE, DAVENPORT.....	Cannon, Conn.
Yale University, Ph.B., 1901.	
WHITE, ROBERT POTTS.....	Jersey City, N. J.
WILSON, JOHN ROBERT.....	Hoosick Falls, N. Y.
WISANSKY, JACOB.....	(Mhntn) New York City
College of the City of New York, B.S., 1901.	
WOLF, JACOB IRVING.....	(Mhntn) New York City
College of the City of New York, B.S., 1901.	
WOOLLEY, JAMES STANLEY.....	(Mhntn) New York City
New York University, B.S., 1901.	
WRIGHT, HAROLD WALGROVE.....	Elizabeth, N. J.
ZEILER, AVRUM HERMAN.....	Leadville, Colo.
ZIGLER, MAX.....	(Mhntn) New York City
Third Year Class..... 191	

## SECOND YEAR CLASS

ABRAMS, SAMUEL DOUGHTY.....	Lawrence, L. I.
APPLEGATE, EDWARD TAYLOR RIGGS, Jr.....	Hightstown, N. J.
Princeton University, B. S., 1902.	
ASTLE, CHRISTOPHER.....	Providence, R. I.
Brown University, A.B., 1902.	
BAKST, JOSEPH.....	(Mhntn) New York City
BALL, CHARLES EDWARD AUGUSTINE.....	South Orange, N. J.
BARROWS, STERLING.....	Orange, N. J.
BARTLETT, LAURENCE STEWART.....	(Mhntn) New York City
Princeton University, A.B., 1901.	
BAYLES, WILLIAM HENRY.....	New Rochelle, N. Y.
BERNSTEIN, MAX.....	(Mhntn) New York City
BETOWSKI, PAUL EUGENE.....	Waverly, N. Y.
BICKELHAUPT, BERTRAM.....	(Mhntn) New York City
BIRDSALL, CLARENCE ATHERTON.....	Jersey City, N. J.
BOOKMAN, MILTON RALPH.....	(Br) New York City
BOSWELL, JOHN ARTHUR.....	Amsterdam, N. Y.
BRANCATO, PETER.....	(Mhntn) New York City

- BURNHAM, ATHEL CAMPBELL**.....(Mhtn) New York City  
**BURROWS, ELLIOTT CYRIL**.....Elizabeth, N. J.  
**BUTLER, EUSTACE CAMERON**.....Bahamas, W. I.  
**CANTO, YSIDRO HERRERA**.....Merida, Yucatan, Mexico.  
 Boston University, B.S., 1900.  
**CASAMAJOR, LOUIS**.....(Bklyn) New York City  
 Columbia University, A.B., 1903.  
**CASPER, JOSEPH**.....Salem, N. J.  
 Princeton University, B.S., 1902.  
**COHEN, EMANUEL**.....(Mhtn) New York City  
**CONLEY, DUDLEY STEELE**.....Columbia, Mo.  
 Missouri State University, B.L., 1899.  
**CORSCADEN, JAMES ALBERT**.....Middletown, Conn  
 Wesleyan University, Ph.B., 1902.  
**DAY, HOMER LELAND**.....San Francisco, Cal.  
 Leland Stanford, Jr., University, A.B., 1901.  
**DECKER, CHARLES THURSTON**.....Westfield, N. J.  
**DENNO, WILLARD JOSEPH**.....Castleton, Vt.  
 Yale University, A.B., 1903.  
**DETWILLER, ALBERT KNECHT**.....Easton, Pa  
 Lafayette College, Ph.B., 1901.  
**DRAPER, GEORGE**.....(Mhtn) New York City  
 Harvard University, A.B., 1903.  
**DRENNEN, WESTLEY EARLE**.....Birmingham, Ala.  
 University of Alabama, A.B., 1902.  
**DU BOIS, EUGENE FLOYD**.....West New Brighton, S. I.  
 Harvard University, A.B., 1903.  
**EDGAR, JOSEPH ALEXANDER**.....Jersey City, N. J.  
**EHRHARDT, CHARLES FREDERICK**.....(Mhtn) New York City  
**EISENBERG, ABRAHAM DAVID**.....(Mhtn) New York City  
**ELMENDORF, WILLIAM TEN-EYCK**.....(Mhtn) New York City  
 Rutgers College, A.B., 1902.  
**ENGELSON, JOSEPH ENGEL**.....(Tremont) New York City  
**FELBERBAUM, DAVID**.....(Mhtn) New York City  
**FINK, MORRIS**.....(Mhtn) New York City  
**FISCHER, HENRY ARCHBOLD**.....(Mhtn) New York City  
**FISHER, CHARLES FRANK**.....(Bklyn) New York City  
**FLEMMING, EDWARD ALBERT**.....(Bklyn) New York City  
**FOLSOM, RALPH PARKER**.....Oldtown, Me.  
 Dartmouth College, A.B., 1897.  
**FRIEDER, WILLIAM**.....(Mhtn) New York City  
**FRIEDMAN, SIMON SIDNEY**.....(Mhtn) New York City  
 College of the City of New York, A.B., 1902.  
**GILLEN, WILLIAM ALOYSIUS, JR.**.....Jersey City, N. J.  
 St. Francis Xavier College, A.B., 1902.  
**GOLDBERGER, LEWIS ARTHUR**.....(Mhtn) New York City  
 College of the City of New York, A.B., 1902.  
**GOLDMAN, ALEXANDER**.....(Mhtn) New York City  
 New York College of Pharmacy, Ph.G., 1897.  
**GORDON, DONALD, JR.**.....(Bklyn) New York City  
**GOTTESMAN, ABRAHAM**.....(Mhtn) New York City  
**GRAHAM, JOHN ELLIOTT**.....Amsterdam, N. Y.  
**GREENSPAN, SAMUEL**.....(Mhtn) New York City  
**GROESCHEL, LESSER BERNHARDT**.....Chester, S. C.



- GROSSMAN, LOUIS JOSEPH.....(Bklyn) New York City  
 GUSSINKLO, WILLIAM TE.....(Mhtn) New York City  
 HARRINGTON, JAMES TAYLOR.....Milburn, N. J.  
 Harvard University, A.B., 1899.
- HARRIS, HARRY BLATT.....Orange, N. J.  
 HART, LEONARD.....Jackson, Miss.  
 Millsaps College, B.S., 1902.
- HENRY, MORRIS WALGROVE.....(Bklyn) New York City  
 HENSCHEL, LOUIS KAUFMAN.....(Mhtn) New York City  
 HOLZMAN, ARTHUR CHESTER.....(Bklyn) New York City  
 HOWELL, ERNEST TITUS DEAN.....(Mhtn) New York City  
 HOWLAND, DE RUYTER.....New Rochelle, N. Y.  
 HUSTON, HENRY WILLIAM.....Newton, N. J.  
 Princeton University, A.B., 1902.
- HUYCK, RALPH PRYNE.....Herkimer, N. Y.  
 ITTELSON, MAX.....(Mhtn) New York City  
 JANÉ, ALBERTO CRISTOBAL.....Guantanamo, Cuba  
 Provincial Institute, Santiago, A.B., 1891.
- JOELSON, MORRIS SAMUEL.....Paterson, N. J.  
 JOHNSON, FREDERICK A.....(Mhtn) New York City  
 KAUFMAN, IGNATZ.....(Mhtn) New York City  
 KIBBE, EDWIN JACKSON.....Batavia, N. Y.  
 KIMBALL, PAUL WELLINGTON.....(Mhtn) New York City  
 Amherst College, A.B., 1902.
- KINGSLEY, ROLFE.....(Mhtn) New York City  
 Yale University, Ph.B., 1902.
- KOBLER, EARL WILLIS.....Upper Montclair, N. J.  
 LANDESMAN, ISIDOR LOUIS.....(Mhtn) New York City  
 LANDSMAN, ISIDORE JOSEPH.....(Mhtn) New York City  
 College of the City of New York, A.B., 1901.
- LASHER, FRANK HERMANCE.....Poughkeepsie, N. Y.  
 LAWLOR, MICHAEL JOSEPH.....Waterbury, Conn.  
 Holy Cross College, A.B., 1902.
- LEBOWITZ, EMANUEL FREDERICK.....(Mhtn) New York City  
 College of the City of New York, B.S., 1902.
- LEDERER, MAX.....(Bklyn) New York City  
 LEE, WILLIAM RUMFITT, Jr.....Troy, N. Y.  
 LEVENE, SAMUEL ARCHIBALD.....(Mhtn) New York City  
 LEVINE, BENJAMIN MEYER.....(Mhtn) New York City  
 LEWIS, HOWARD TAYLOR.....Ashaway, R. I.  
 Alfred University, B.S., 1902.
- LIEB, CHARLES CHRISTIAN.....(Mhtn) New York City  
 Columbia University, A.B., 1902.
- LINDEMAN, HOWARD EDWARD.....(Mhtn) New York City  
 LOVE, TRACY ROBINSON.....Denver, Colo.  
 Columbia University, Ph.B., 1902.
- LYON, EDWARD CRANE, Jr.....Montclair, N. J.  
 Princeton University, A.B., 1902.
- MCCORMACK, WILLIAM GUILDING, Jr.....(Mhtn) New York City  
 McKALLAGAT, PETER LEO.....Lawrence, Mass.  
 McNULTY, EDWARD FINNEY.....(Bklyn) New York City  
 MACRAE, RICHARD MONCURE.....Upperville, Va.  
 MARKOWITZ, AARON HENRY.....(Mhtn) New York City  
 MININGHAM, WILLIAM DARCY.....Jersey City, N. J.  
 MOCKRIDGE, OSCAR ABRAHAM.....Newark, N. J.  
 Pennsylvania Military College, B.S., 1901.

- MONTY, ADELBERT HOWARD.....Holyoke, Mass.  
 MORETSKY, HENRY MOSES.....(Mhtn) New York City  
 MORTON, CHARLES EDWARD.....Webster, Mass.  
 OBERWAGER, JOHN.....(Mhtn) New York City  
 College of the City of New York, A.B., 1901.  
 OPPENHEIMER, FREDERIC GOLDING.....San Antonio, Tex.  
 Columbia University, A.B., 1902.  
 OSNATO, MICHAEL.....(Mhtn) New York City  
 PEASE, MARSHALL CARLETON, JR.....Downers Grove, Ill.  
 Beloit College, B.S., 1902.  
 PHELPS, GOUVERNEUR MORRIS.....New Rochelle, N. Y.  
 Harvard University, B.S., 1902.  
 PHILLIPS, CHARLES.....(Mhtn) New York City  
 PIDGEON, EDWARD RUNDEL.....Norwalk, Conn.  
 Yale University, A.B., 1900.  
 PORTER, JOSEPH YATES, JR.....Key West, Fla.  
 POSTON, EDWIN IRWIN.....Crawfordsville, Ind.  
 Wabash College, Indiana, A.B., 1902.  
 PRATT, CHARLES HOWARD.....Passaic, N. J.  
 RAABE, ALFRED.....(Br) New York City  
 RAY, EDGAR THOMAS.....(Mhtn) New York City  
 College of the City of New York, A.B., 1902.  
 REUBEN, MARK.....(Mhtn) New York City  
 College of the City of New York, A.B., 1902.  
 RICE, FREDERICK WALTER.....Bangor, Me.  
 Holy Cross College, A.B., 1902.  
 ROSENTHAL, JOSEPH.....(Mhtn) New York City  
 ROSS, CARL ARTMAN.....Dansville, N. Y.  
 ROSSANO, AUGUSTUS THOMAS.....(Mhtn) New York City  
 RYTTEMBERG, CHARLES.....Sumter, S. C.  
 University of South Carolina, A.B., 1902.  
 SAMMIS, JESSE FLEET.....Huntington, L. I.  
 Princeton University, A.B., 1902.  
 SCHULMAN, ROBERT.....(Bklyn) New York City  
 Columbia University, A.B., 1903.  
 SCHUMER, HENRY.....(Mhtn) New York City  
 SCHWARTZ, PETER.....(Mhtn) New York City  
 SCRUTON, WILLIAM ALFRED.....(Mhtn) New York City  
 SEARS, HENRY CLARK.....Binghamton, N. Y.  
 SELVAGE, CHARLES EDWIN.....Newark, N. J.  
 SEVERSON, IRWIN WINT.....Pittston, Pa.  
 SHAINÉ, MARKS SOLOMON.....(Mhtn) New York City  
 College of the City of New York, A.B., 1902.  
 SHEA, WILLIAM ALBERT.....Ashland, Wis.  
 Notre Dame University, Indiana, Litt.B., 1902.  
 SHERWOOD, WILLIAM DAVIES.....(Mhtn) New York City  
 SHUGERMAN, HARRY PHILIP.....Birmingham, Ala.  
 Howard College, A.B., 1901.  
 SILVERMAN, SAMUEL TILDEN.....(Mhtn) New York City  
 SINGER, DAVID A.....(Mhtn) New York City  
 College of the City of New York, A.B., 1903.  
 SIROVICH, WILLIAM IRVING.....(Mhtn) New York City  
 College of the City of New York, A.B., 1902.  
 SLOCUM, ARTHUR LANGFORD.....East Providence, R. I.  
 Brown University, A.B., 1901.

- SMITH, SCOTT LORD.....South Wilton, Conn.  
Yale University, A.B., 1902.
- SMITH, WALTER MONTY.....Glens Falls, N. Y.
- SMOLEN, ABRAHAM LOUIS.....(Mhtn) New York City  
College of the City of New York, A.B., 1902.
- SOBEL, SAMUEL PAUL.....(Mhtn) New York City  
State Board Pharmacy, Phar.L., 1899.
- SOPER, ARTHUR ELSWORTH.....Northport, L. I.
- SPICKERS, WILLIAM, JR.....Paterson, N. J.
- SPIEGELBERG, SIDNEY LEHMAN.....(Mhtn) New York City  
Columbia University, A.B., 1902.
- STEERE, ARTHUR.....Gloucester, R. I.  
Brown University, A.B., 1902.
- STEINHARDT, IRVING DAVID.....(Mhtn) New York City
- STEWART, EDGAR EGINTON.....(Mhtn) New York City
- STEWART, SAMUEL.....Paterson, N. J.
- STRAIN, WILLIAM PETER.....New Rochelle, N. Y.
- STRATMANN, CHARLES FRANCIS.....(Bklyn) New York City
- SUMNER, ABRAHAM JACOB.....(Mhtn) New York City
- TASSEY, WILLIAM EDWARD.....Watertown, N. Y.
- TAYLOR, CARLE DUDLEY.....Washington, Fla.
- THUNIG, LOUIS ALBERT.....(Bklyn) New York City
- TITSWORTH, SYDNEY ROSS.....Plainfield, N. J.  
Alfred University, B.S., 1901.
- TRUESDELL, EDWARD DELAVAN.....(Bklyn) New York City  
Princeton University, A.B., 1902.
- UNGER, HERMAN HENRY.....(Mhtn) New York City  
College of the City of New York, A.B., 1901.
- VAIL, CHARLES EDWARD.....Newark, N. J.  
Princeton University, A.B., 1902.
- VAN VERBEEK SCHOTT, GERARD JOHAN, JR.....Passaic, N. J.
- VERMILYE, ROBERT MONTGOMERY.....(Mhtn) New York City  
Princeton University, A.B., 1902.
- VOORHEES, HOWARD CROSBY.....New Brunswick, N. J.  
Princeton University, A.B., 1902.
- VREELAND, RALPH DOREMUS.....Paterson, N. J.
- WALLING, LENNOX GRESHAM.....Harrisville, R. I.  
Brown University, A.B., 1902.
- WATRINS, EDWIN.....Chattanooga, Tenn.  
University of Virginia, B.S., 1902.
- WEIZENHOFER, ADOLPH.....(Mhtn) New York City  
College of the City of New York, B.S., 1898.
- WESTOVER, ROBERT RAYMOND.....Oxford, N. Y.
- WOOD, WILSON GUYON.....(Mhtn) New York City  
College of the City of New York, B.S., 1899.
- WOODS, THOMAS HENRY, JR.....(Bklyn) New York City  
St. Francis College, Brooklyn, A.B., 1901.
- WOOLDRIDGE, JAMES CLEMENTS.....Columbus, Ga.  
Emory College, Ga., A.B., 1898.
- WRIGHT, FREDERICK STARR.....Barnegat, N. J.  
Lafayette College, A.B., 1902.  
Second Year Class..... 164

## FIRST YEAR CLASS

- ABRAMS, WILLIAM LAMBERSON.....(Mhtn) New York City  
 ABRONS, HARRY.....(Mhtn) New York City  
 ALLEN, THEODORE HENRY.....Montclair, N. J.  
     Columbia University, A.B., 1903.  
 ANDERSON, CHARLES ALBERT.....Dorchester, Mass.  
 AXELRAD, JACOB.....(Mhtn) New York City  
     College of the City of New York, B.S., 1902.  
 BAECHLER, JULES.....(Mhtn) New York City  
     French American College, A.B., 1903.  
 BAILEY, CHARLES HERVEY.....New Rochelle, N. Y.  
     Brown University, A.B., 1903.  
 BASS, MURRAY HAROLD.....(Mhtn) New York City  
     Columbia University, A.B., 1903.  
 BLAGDEN, CRAWFORD.....(Mhtn) New York City  
     Harvard University, A.B., 1902.  
 BOARD, BEN CURRY.....Chester, N. Y.  
 BOICE, HARRY WALDEMAR.....(Bklyn) New York City  
 BROWN, SANGER.....Bloomfield, Ont., Canada.  
 CALLAGHAN, WILLIAM AUGUSTINE.....Ogdensburg, N. Y.  
 CARTMELL, THEODORE MITHOFF.....Lancaster, O.  
     Kenyon College, A.B., 1903.  
 CASSEBEER, ALFRED FREDERICK.....Rochester, N. Y.  
 CLASS, FRANKLIN MORRIS.....(Mhtn) New York City  
     Harvard University, A.B., 1903.  
 COHEN, NATHAN.....(Mhtn) New York City  
 COHN, ROYAL MORRIS.....Newark, N. J.  
 CROHN, BURRILL BERNHARD.....(Mhtn) New York City  
     College of the City of New York, A.B., 1902.  
 CROSS, JAMES BAILEY.....Fultonville, N. Y.  
 DAVIES, OSCAR PROTHEROE.....Scranton, Pa.  
 DECKER, HARRY RYERSON.....Montclair, N. J.  
     Princeton University, A.B., 1903.  
 DERBY, RICHARD.....(Mhtn) New York City  
     Harvard University, A.B., 1903.  
 DONNOCKER, CHARLEY FLETCHER.....Huntington, L. I.  
     Bates College, A.B., 1902.  
 DORSEY, JOHN JOSEPH.....Ogdensburg, N. Y.  
 EGGERS, CARL FREDERICK AUGUST.....(Bklyn) New York City  
 ERLER, EUGENE WILLIAM.....Newark, N. J.  
     Rutgers College, A.B., 1903.  
 ESPINOSA, ANTONIO.....Yucatan, Mexico.  
 FABER, GUSTAVUS WILLIAM.....Plainfield, N. J.  
     Princeton University, A.B., 1903.  
 FAIRCHILD, RALPH PLUMB.....(Mhtn) New York City  
 FARRELL, JOHN RAYMOND.....(Mhtn) New York City  
 FOOT, NATHAN CHANDLER.....Rye, N. Y.  
     Harvard University, A.B., 1903.  
 FORSTOT, SAMUEL.....(Mhtn) New York City  
     College of the City of New York, A.B., 1903.  
 FORT, JAY IRVING.....Newark, N. J.  
     Columbia University, A.B., 1903.  
 FULKERSON, LYNN LYLE.....Ingliside, N. Y.  
     Syracuse University, A.B., 1903



- FURST, SIDNEY.....(Br) New York City  
College of the City of New York, B.S., 1903.
- GISSEL, HENRY WILLIAM, Jr.....(Bklyn) New York City  
GOLDBERG, ABRAHAM.....(Mhtn) New York City  
GRADY, WILLIAM FRANCIS.....Orange, N. J.  
Seton Hall College, A.B., 1903.
- GRANBERRY, DENIS WEBB.....Orange, N. J.  
Harvard University, A.B., 1899.
- GRAVES, ALFRED JAMES.....London, England  
GRUDBERG, SIMON CHARLES.....(Mhtn) New York City  
College of the City of New York, A.B., 1903.
- GUILE, HUBERT VIVIAN.....(R) New York City  
Princeton University, B.S., 1903.
- HARPER, PAUL TOMPKINS.....Cohoes, N. Y.  
Hamilton College, Ph.B., 1903.
- HEDEMANN, FERDINAND FREDERICK.....Honolulu, H. I.  
HEIMAN, JACOB.....(Mhtn) New York City  
College of the City of New York, A.B., 1903.
- HOFF, HOWARD CROSBY.....(Mhtn) New York City  
HOGUET, JOSEPH PIERRE.....(Mhtn) New York City  
HOLT, ROLAND GORDON.....Hudson, Mass.  
JAFFE, HERMAN MEYER.....Jersey City, N. J.  
JAMES, HENRY.....Baltimore, Md.  
Yale University, A.B., 1903.
- JANEWAY, WILLIAM RICHARD, 2d.....(R) New York City  
Princeton University, A.B., 1903.
- KEATING, THOMAS SEBASTIAN.....(Bklyn) New York City  
KEENEY, CADWELL BENSON.....Elizabeth, N. J.  
Princeton University, A.B., 1903.
- KEHRLEIN, OLIVER DU FRÉSNE.....San Francisco, Cal.  
KELLEHER, JOHN FRANCIS.....Jersey City, N. J.  
KELLER, MORRIS.....(Mhtn) New York City  
College of the City of New York, A.B., 1903.
- KNAPP, RICHARD EDWARD.....Hackensack, N. J.  
KRAMER, HENRY FREDERICK.....(Bklyn) New York City  
KRANS, EDWARD SHEAFE.....(Mhtn) New York City  
Bishop's College, Quebec, A.B., 1902.
- LAMB, ALBERT RICHARD.....Waterbury, Conn.  
Yale University, A.B., 1903.
- LARKIN, ARTHUR GABRIEL.....(Mhtn) New York City  
LICHTENSTEIN, GEORGE.....(Mhtn) New York City  
College of the City of New York, A.B., 1899.
- LUCAS, DANIEL RALPH.....Lafayette, Ind.  
Purdue University, Ph.G., 1901; B.S., 1903.
- LUERY, MICHAEL.....Surigao Mindanao, P. I.  
MCREADY, ROBERT LYNESS, Jr.....(Mhtn) New York City  
MACLURE, MALCOLM FOSPER.....Newark, N. J.  
MANDELBAUM, HERBERT DAVID.....(Mhtn) New York City  
Columbia University, A.B., 1903.
- MILLER, GEORGE EDMUND.....Utica, N. Y.  
Hamilton College, A.B., 1903.
- MILLER, LOUIS.....(Mhtn) New York City  
College of the City of New York, A.B., 1903.

- MILLS, WILLIAM MERRILL.....Topeka, Kan.  
Washburn College, A.B., 1903.
- MIXSELL, RAYMOND BOILEAU.....(Mhtn) New York City  
Princeton University, A.B., 1903.
- MOECKEL, CARL RICHARD.....Lawrence, Mass.
- MORE, DAVID HUBBELL.....Bangor, Me.  
Lafayette College, Ph.B., 1903.
- MOSENTHAL, WALTON JOSEPH.....(Mhtn) New York City  
Columbia University, A.B., 1901.
- MURN, CHARLES JOSEPH.....Paterson, N. J.  
Fordham College, A.B., 1903.
- MYERSON, ABRAHAM.....Chelsea, Mass.
- NORTON, HOWARD LEROY.....New Castle, Pa.
- OWEN, MAYNARD SMITH.....Delaware, O.  
Ohio Wesleyan University, A.B., 1903.
- PARDEE, CHARLES AUGUSTUS, Jr.....Fall River, Mass.
- PHILLIPS, WALTER.....Alexandria, Pa.  
Princeton University, A.B., 1902; A.M., 1903.
- POWERS, JOHN BREWER.....Wake Forest, N. C.  
Wake Forest College, A.M., 1903.
- RAWLS, PERCY SCOTT.....Indianapolis, Ind.  
University of Chicago, B.S., 1903.
- RUHL, HENRY LOUIS.....(Br) New York City  
St. John's College, A.B., 1903.
- RUSHMORE, EDWIN HAPF.....Hempstead, N. Y.
- SCHILLER, ABRAHAM NOAH.....(Mhtn) New York City  
College of the City of New York, A.B., 1903.
- SCHWARTZ, LOUIS HERBERT.....(Mhtn) New York City  
College of the City of New York, A.B., 1901.
- SHANK, EVERETT W.....Dayton, O.  
Oberlin College, A.B., 1902.
- SINGER, JOSEPH ISAAC.....(Mhtn) New York City  
College of the City of New York, A.B., 1903.
- SLAUGHTER, WILLIAM HARRISON.....(Bklyn) New York City  
Hamilton College, Ph.B., 1902.
- SPELMAN, HARRY TUCKER.....(Bklyn) New York City
- STILLMAN, ALFRED, 2d.....(Bklyn) New York City  
Harvard University, A.B., 1903.
- STILLMAN, RALPH GRIFFITHS.....Rahway, N. J.  
Yale University, A.B., 1903.
- SULLIVAN, RAYMOND PETER AUGUSTINE.....(Bklyn) New York City  
Manhattan College, A.B., 1903.
- SWANN, ARTHUR WARTON.....Stockbridge, Mass.  
Harvard University, A.B., 1903.
- TAYLOR, CHARLES GOODMAN.....(Mhtn) New York City
- TERRIBERRY, WILLIAM KENNEY.....Somerville, N. J.  
Yale University, A.B., 1903.
- TINDELL, GEORGE RUNYON.....New Brunswick, N. J.
- TWEDDEL, FRANCIS.....Great Neck, L. I.
- VIDAL, JOSEPH EUGENE.....(R) New York City
- WALL, JAMES PERCY.....Jackson, Miss.  
Millsaps College, A.B., 1899.
- WALLENSTEIN, CHARLES ABRAHAM.....(Bklyn) New York City
- WEINGARTEN, FREDERICK SIMON.....(Br) New York City
- WILENSKY, ABRAHAM OWEN.....(Mhtn) New York City  
College of the City of New York, A.B., 1903.

WITT, ABRAHAM WOLFF.....	(Mhtn) New York City College of the City of New York, A.B., 1901.
WOODS, EDWARD BIGELOW.....	Pittsburgh, Pa. Princeton University, B.S., 1903.
ZELAYA, ANIBAL.....	Nicaragua, C. A. First year Class.....107

## SPECIAL STUDENTS

AGNEW, GEORGE WRIGHT.....	Bethel, Conn.
BROWN, EDWARD DUNN.....	Jersey City, N. J. University of Pennsylvania, A.B., 1900.
CARDEZA, JOHN MARTINEZ.....	New Haven, Conn.
COLE, WESLEY HAROLD.....	(Mhtn) New York City
CRUDDEN, FRANCIS.....	(Mhtn) New York City
FEDERICI, GAETANO.....	Paterson, N. J.
FORSNAY, ALBERT EUGENE.....	Newark, N. J.
GIL, GIL JUVENAL.....	(Mhtn) New York City University of Antioquia, Colombia, S. A., 1901.
HALL, EDWIN CLIFTON.....	Harrison, N. Y.
HAWKES, EDWARD MATHIAS Zeh.....	Newark, N. J. Union College, A.B., 1887. Columbia University, M.D., 1890.
HEAD, HAYDEN WILSON.....	Sherman, Tex. Austin College, Texas, B.S., 1901.
HESSLER, HERMAN PHILIP.....	New Haven, Conn. Yale University, M.D., 1903.
HORTON, JOSEPH WEBSTER.....	Hartford, Conn.
JANSON, WILLIAM, JR.....	(Bklyn) New York City
JOHNSON, OTIS HACKETT.....	(Mhtn) New York City University of the South, A.B., 1900.
KELLY, EDWARD.....	Lebanon, Ky. Vanderbilt University, M.D., 1882.
McLAREN, JOHN DICE.....	(Mhtn) New York City University of Kansas, M.Sc., 1889. Columbia University, M.D., 1896.
MACDONALD, JOHN JOSEPH.....	Bridgeport, Conn.
MACKLIN, MAURICE.....	(Mhtn) New York City
NARWOOD, HOLMES MONTGOMERY.....	(Mhtn) New York City
OLIDART, LOUIS PINCUS.....	(Mhtn) New York City
REGAN, MICHAEL JAMES.....	Holyoke, Mass.
SGIER, MARTIN JOSEPH.....	(Bklyn) New York City
SPENGEMAN, PERCY CAREY.....	(Mhtn) New York City
TAPPAN, WILLIAM JAMES.....	Jersey City, N. J.
TRACY, IRA OTIS.....	(Bklyn) New York City Columbia University, M.D., 1882.
URELES, MAURICE.....	(Mhtn) New York City
WARD, EGBERT HAMMOND PINNEO.....	White Plains, N. Y. Columbia University, A.B., 1901.
WEHRENBURG, WILLIAM DIEDRICH.....	(Mhtn) New York City Special Students.....29

## SUMMARY

Fourth Year Class.....	178
Third Year Class.....	191
Second Year Class.....	164
First Year Class.....	107
Special Students.....	29
Seniors from Columbia College.....	669
	8
Total.....	677

## THE SCHOOL OF MINES

## THE SCHOOL OF CHEMISTRY

## THE SCHOOLS OF ENGINEERING

Under the University organization of Divisions these include:

The Division of Chemistry

The Division of Engineering, comprising the Departments of Civil Engineering

Electrical Engineering and

Mechanical Engineering

The Division of Mining and Metallurgy

In addition to the above, students under this Faculty attend courses in the Division of Mathematical and Physical Science, including Astronomy, Mathematics, Mechanics, Physics, and in the Division of Geology, Geography, and Mineralogy.

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### Officers of the Faculty

FREDERICK R. HUTTON, C.E., Ph.D. . . . . *Dean (term expires 1905) and  
ex-officio Member of the University Council*

GEORGE F. SEVER. . . . . *Secretary*

HENRY S. MUNROE, E.M., Ph.D. . . . . *Elected Delegate to the University  
Council*

### Standing Committees

COMMITTEE ON ADMINISTRATION: Professors Hutton, Van Amringe,  
Howe, Sever, Bogert

COMMITTEE ON ADMISSIONS: Professors Hallock, Maclay, and Miller

### The Faculty

NICHOLAS MURRAY BUTLER, Ph.D., LL.D., *President*

J. HOWARD VAN AMRINGE, Ph.D., L.H.D., LL.D. . . . . *Professor of  
Mathematics*

CHARLES F. CHANDLER, Ph.D., M.D., LL.D., Sc.D. . . . . *Professor of  
Chemistry*

HENRY S. MUNROE, E.M., Ph.D. . . . . *Professor of Mining*

FREDERICK R. HUTTON, C.E., Ph.D. . . . . *Professor of Mechanical  
Engineering and Dean of the Faculty*



JOHN KROM REES, E.M., Ph.D.....	Professor of Astronomy
ALFRED J. MOSES, E.M., Ph.D.....	Professor of Mineralogy
JAMES F. KEMP, A.B., E.M.....	Professor of Geology
ROBERT PEELE, E.M.....	Adjunct Professor of Mining
WILLIAM HALLOCK, Ph.D.....	Professor of Physics
FRANCIS B. CROCKER, E.M., Ph.D..	Professor of Electrical Engineering
MICHAEL I. PUPIN, Ph.D.....	Professor of Electro-Mechanics
WILLIAM H. BURR, C.E.....	Professor of Civil Engineering
ROBERT S. WOODWARD, C.E., Ph.D.....	Professor of Mechanics and Mathematical Physics
HAROLD JACOBY, Ph.D.....	Adjunct Professor of Astronomy
BASHFORD DEAN, Ph.D.....	Adjunct Professor of Zoölogy
LUCIEN MARCUS UNDERWOOD, Ph.D.....	Professor of Botany
HENRY M. HOWE, A.M., S.B.....	Professor of Metallurgy
CHARLES E. PELLEW, E.M.....	Adjunct Professor of Chemistry
EARL B. LOVELL, C.E.....	Adjunct Professor of Civil Engineering
CHARLES R. RICHARDS, B.S...	Professor of Manual Training, Teachers College
GEORGE FRANCIS SEVER...	Adjunct Professor of Electrical Engineering
JAMES MACLAY, C.E., Ph.D.....	Adjunct Professor of Mathematics
EDMUND HOWD MILLER, Ph.D.....	Adjunct Professor of Analytical Chemistry and Assaying
MARSTON TAYLOR BOGERT, A.B., Ph.B.	Adjunct Professor of Organic Chemistry
J. LIVINGSTON RUTGERS MORGAN, Ph.D..	Adjunct Professor of Physical Chemistry
AMADEUS W. GRABAU, S.D.....	Adjunct Professor of Palæontology
RALPH EDWARD MAYER, C.E.....	Adjunct Professor of Mechanical Drawing
IRA H. WOOLSON, E.M...	Adjunct Professor of Mechanical Engineering
CASSIUS JACKSON KEYSER, Ph.D..	Adjunct Professor of Mathematics
HERSCHEL C. PARKER, Ph.B.....	Adjunct Professor of Physics
AMASA TROWBRIDGE, Ph.B.....	Adjunct Professor of Mechanical Engineering
GEORGE L. MEYLAN, M.D....	Adjunct Professor of Physical Education

### PROFESSIONAL COURSES

The Faculty of Applied Science has charge of the following schools:

1. The SCHOOL OF MINES, with four-year courses leading to the degrees of Engineer of Mines and Metallurgical Engineer.
2. The SCHOOL OF CHEMISTRY, with four-year courses in Analytical, Industrial, and Organic Chemistry, leading to the degree of Bachelor of Science.
3. The SCHOOLS OF ENGINEERING, with four-year courses in Civil Engineering, Sanitary Engineering, Electrical Engineering, and Mechanical Engineering, the first two leading to the degree of Civil

Engineer, and the others to the degree of Electrical Engineer and Mechanical Engineer, respectively.

Full particulars regarding each of these courses of study are contained in special circulars, which will be forwarded on application to the Secretary of the University.

These courses are intended to meet the requirements of the several professions indicated. Many of the courses permit a certain amount of specialization, particularly in the fourth year. The courses in the School of Mines are so arranged that the student can emphasize the engineering, the metallurgical, or the geological side of his profession, while one of the alternative courses in Mechanical Engineering is designed for those who wish to make a specialty of mine plant and machinery. A course in Sanitary Engineering (leading to the degree of Civil Engineer) is provided for those who wish to prepare themselves for this important branch of civil engineering. The Mechanical Engineering course offers three alternatives in the fourth year, emphasizing, respectively, the dynamic, the marine, and naval architectures, and the locomotive sides of the mechanical engineer's work. Three courses are offered in Chemistry: for analytical, industrial, and organic chemists, respectively.

#### **Modifications of Regular Courses**

Under By-Law 2, page 293, a student will be permitted to substitute one study for another in any of the regular courses. By taking advantage of this provision students can fit themselves for special lines of professional work without losing their degree.<sup>1</sup>

#### **Special Privileges for Graduate Students**

Graduates of colleges or scientific schools are admitted to advanced standing in any of the regular professional courses, as candidates for a degree. Such students are given credit for all courses of which they have had the substantial equivalent, and are permitted to take any course of study for which they are qualified. If possible, such students should make arrangements to attend, before entrance, the required summer classes of the course which they intend to take.

#### **UNIVERSITY COURSES IN APPLIED SCIENCE**

The Faculty of Applied Science has charge of candidates for the degrees of Master of Arts and Doctor of Philosophy who desire to undertake advanced study or special investigations in mining, metallurgy, or engineering (civil, sanitary, electrical, and mechanical). Information as to these higher degrees will be found in the departmental statements (pages 63-191).

<sup>1</sup> It is particularly recommended, for example, that students whose professional work is likely to take them to Spanish America should arrange for a proper course in the Spanish language.

## ADMISSION

The Committee on Admissions of the Schools of Applied Science has charge of everything relating to this subject.

Candidates for admission to the first-year class, at its formation, must be at least eighteen years of age, and for admission to advanced standing there is required a corresponding increase of age; but this rule may be dispensed with when, in the opinion of the Committee, there are sufficient reasons to justify its relaxation.

Every candidate must, before admission, present a certificate of good moral character from his last teacher, or from some citizen in good standing, and students from other institutions must bring certificates of honorable dismissal.

## Requirements for Admission

Every candidate for admission to the first-year class is required at the entrance examinations (see pages 192-209) to offer subjects amounting to sixteen points <sup>1</sup> as indicated below.

The candidate *must* offer:

Mathematics, elementary and advanced (pages 206-207) .....	counting 4 points
Elementary Physics (page 207).....	" 1 point
Chemistry (page 196).....	" 1 "
Freehand Drawing (page 197).....	" 1 "
English (page 197).....	" 3 points
Elementary History (page 204).....	" 2 "
Elementary German (page 201).....	" 2 "

and two points from one of the following subjects:

Elementary French (page 199).....	" 2 points
Spanish (page 208).....	" 2 "
Elementary Latin (page 205).....	" 2 "

## Certificates in Lieu of Entrance Examinations

The Schools of Applied Science in general accept, in lieu of University entrance examinations, no credentials of any sort except the Regents' Academic Diploma <sup>2</sup> and the certificates of universities and

<sup>1</sup> The several subjects are stated in terms of units; the unit is a course of five periods weekly throughout an academic year of the preparatory school; the subjects are assigned units in accordance with the time required to prepare adequately upon them for college entrance.

<sup>2</sup> For 1903-04 every Regents' Academic Diploma is considered as covering the entrance requirement in English. No Regents' Academic Diploma will be accepted in lieu of the entrance examination in French unless it covers a two-years' high-school course in French as recognized by the Regents. Similarly, no Regents' Academic Diploma will be accepted in lieu of the entrance examination in German unless it covers a two-years' high-school course in German. In the case of the natural sciences, a Regents' Academic Diploma will not be accepted for the required laboratory work.

colleges in good standing. These credentials are accepted only for the ground which they specifically cover.

All credentials offered in lieu of entrance examinations must be sent to the chairman of the Committee on Admissions of the Schools of Applied Science at least one week before the first day of the entrance examinations. The names of those candidates whose certificates are accepted in whole or in part will be posted on the Bulletin Board at least one day in advance of the beginning of the examinations.

The certificates of the preparatory or high-school departments of universities and colleges are not accepted.

Candidates must take the regular entrance examinations in the subjects in which their certificates are not deemed adequate.

### Report of Entrance Examinations

The Committee on Admissions will report to the Dean not later than one week after the conclusion of the entrance examinations in June the names of those candidates who, having passed a satisfactory examination, may be admitted with or without conditions, or who must present themselves for re-examination in September, and of those who have been rejected, and, not later than one week after the conclusion of the entrance examinations in September, to the Registrar, the names of those candidates who, upon a final showing, may be admitted with or without conditions, and of those who have been rejected.

Except for reasons of weight, no student will be admitted who is deficient in Mathematics, Chemistry, or Physics.<sup>1</sup>

### Admission to Advanced Standing

Graduates of colleges or scientific schools are admitted to advanced standing in any of the regular professional courses, as candidates for a degree. Such students are given credit for all courses of which they have had the substantial equivalent, and are permitted to take any course of study for which they are qualified. The lecture hours are so arranged that such students can generally fulfil all the requirements for a degree in one or two years. If possible, such men should make arrangements to attend, before entrance, the required summer classes of the course which they intend to take.

Candidates for admission from other universities or colleges and those desiring to be admitted to advanced standing on examination must make application in writing to the Chairman of the Committee on Admissions. Proper blanks for the purpose may be obtained from the Secretary of the University. These should be returned when filled out, accompanied by a catalogue of the institution from which the transfer is to be made, in which the applicant has distinctly

<sup>1</sup> It is suggested that candidates deficient in these subjects in June arrange to take courses in them in the Summer Session of Columbia University, the announcement of which will be sent upon application to the Secretary of the University.



marked the courses which he has completed and the subjects which he offered for admission. The application should be made at least one week before the first day of the September entrance examinations.

Each candidate for a degree seeking admission to advanced standing must show that he has attained proficiency in the equivalents of:

1. The requirements for admission to the first-year class.
2. All the prescribed studies already pursued by the class to which he seeks admission.

A candidate may be admitted notwithstanding deficiencies in some of these studies, but no candidate will be recommended for a professional degree until he shall have brought all his studies up to the point required for that degree.

Each candidate from another university or college is expected to furnish official statements of his record in his various studies, and letters or other evidence showing the opinion of his instructors in regard to his scholarship and character.

No applicant will be allowed to enter the fourth-year class as a candidate for a degree after October 15 in any year.

### Special Students

Graduates of the School of Mines, the School of Chemistry, the School of Engineering, and of other institutions of equal standing, may pursue any subjects taught in the schools for which they are properly qualified.

Except for reasons of weight, satisfactory to the Committee on Admissions, no one will be received as a special student who is unable to meet the regular entrance requirements, or who has, within ten months of the time of his application, been rejected as a regular student, or has, within that period, become deficient as a regular student. No one will be admitted as a special student who wishes merely to pursue elementary subjects included among the requirements for admission to the College or Schools of Applied Science.

Persons of mature age who are not graduates, but who show special qualifications, are sometimes permitted to pursue special courses, but this permission is not given to others.

In the courses which they severally pursue special students will be held to the observance of the same regulations as to attendance, examination, proficiency, and deficiency as regular students.

### Registration

For the regulations prescribed for all students, see page 21. For such further regulations as may be prescribed for the students of the Schools of Applied Science, see the Circular of General Information for 1904-05.

### Fees

(See page 22)

### By-Laws of the Faculty

1. No student is allowed to be a candidate for more than one of the professional degrees at the same time.

2. For reasons of weight the substitution of a subject in any professional course for an approved equivalent may be made by the Dean on the request of any candidate for a degree, provided that such substitution have the approval of the heads of the departments concerned and of the department giving the technical instruction that leads to the degree for which the student is a candidate.

3. Prompt and regular attendance is required of every student upon the exercises and examinations of the courses for which he is enrolled.

4. The instructor in each subject shall keep a careful record of the attendance, and, as far as practicable, of the scholarship, of all students entitled to attend that subject. It shall be the duty of the instructor to warn any student found deficient in scholarship or irregular in attendance, and if such deficient scholarship or irregular attendance continue thereafter he shall report his name through the head of the department to the Dean.

5. Any student so reported may be put upon probation by the Dean, or debarred by him from examination after due opportunity for personal explanation.

6. The Dean may also debar from examination in any subject any student reported to him as having incurred, with or without good reason, absences so numerous that, in the judgment of the head of the department concerned, it has become essential that he should repeat that subject; and any student so debarred shall not be admitted to examination in that subject until he has attended the full course therein.

7. By special permission of the Dean, with the concurrence of the head of the department concerned, students may attend exercises not required in the class or subject to which they belong, provided that such attendance does not interfere with the required exercises of their class. Such students are held to the same rules as to attendance and examination in their extra studies as in the required studies of their class.

8. Any student who shall have passed a satisfactory examination in Columbia College in any study forming a part of one of the professional courses in the schools under the Faculty of Applied Science will not be required to pursue that study a second time.

### Examinations and Standing

9. Examinations will be held at the end of the first half-year (mid-year), or at the end of the year (final). Examinations for students debarred or deficient at the regular examinations will be held during the two weeks preceding the opening of the first half-year, and for

members of the fourth class only, and for subjects belonging to that year only, in the first week in May. In the case of subjects and courses which require the use of collections and apparatus, the delinquent examination will be held during the week following the holidays at Christmas.

10. A student found deficient in a subject at any of the stated examinations above provided will be not allowed a special examination in that subject.

11. A student absent from the regular mid-year, final, or delinquent examinations will be considered to have failed to pass that examination, and will not be allowed a special examination in that subject, except that, if the absence was due to unavoidable circumstances, the Dean may, on proper written certification of these circumstances, grant a special examination.

12. The fee for special examination is \$5.00, which must be paid by the student before being admitted to the examination. If a student has special examinations in several subjects granted to him under one permit from the Dean, specifying each subject, one fee of \$5.00 shall cover them all.

13. Every officer, after the stated examinations have been held, shall report to the Registrar a list of all students who have attended his instruction, indicating their proficiency by numbers on a maximum of 10, a mark below 6 constituting a failure to pass. A student reported in grade 6 in a majority of the subjects pursued by him in any year, and not reported in grade 8 or higher in the greater part of the remainder of such subjects, will not be permitted to go on with his class without the consent of the Dean and the head of the department giving the technical instruction that leads to the degree for which the student is a candidate. This consent will be given only for reasons of weight, but the student may enter the next succeeding class and pursue such subjects as may be required of him. Each student's record will be transmitted to him at the close of each year.

14. Any student who shall fail to pass in any of his studies at the regular mid-year or final examinations shall present himself for a second examination as above provided under the By-Laws; failing to pass in this second examination he shall be dropped from his class and required to repeat the subject with the next following class, but the Dean may exercise his discretion in excusing him from attendance on the exercises of such a subject, holding him to such other requirements as may seem advisable; failing a third time to pass a satisfactory examination in any study, his name shall be dropped from the roll of the school. A student so dropped shall have the right of appeal to the Faculty.

15. Students shall be enrolled in the class in which at least 75 % of their hours are taken; provided, however, that no student shall be advanced from the first to the second class who has any entrance condition in Mathematics, Chemistry, or Physics; no student shall be

advanced to the third class who has any entrance conditions or any deficiencies of the first year; no student shall be admitted to the fourth class who has any deficiency in the first or second year, or more than one deficiency in the third year. A student dropped from the roll of his class shall not be permitted to attend any of the exercises of the said class without the consent of the Dean given for reasons of weight.

16. Students failing in any subject shall not be permitted to take advanced studies for which, by reason of such deficiency, they are not prepared; nor will such students be allowed to attend any Summer School without permission of the Dean.

17. Students who have received one degree and make application for another in the Schools of Applied Science must comply with all the requirements for that degree in force at the date of application.

### **Memoirs and Summer Work**

18. During the vacations following the close of each year, memoirs, on subjects which will be assigned, are required of students in the courses of Civil Engineering, Electrical Engineering, Mechanical Engineering, of Analytical, Industrial, and Organic Chemistry. The time specified for the completion and handing in of memoirs in chemistry and electrical engineering is November 1 of each year; for other memoirs and summer work the time specified is the second Monday in October.

19. Students of the second, third, and fourth classes who fail to hand in the memoirs, drawings, and other summer work required of them under the rules by a specified time, shall not be permitted to hand them in until the beginning of the next academic year, and failing in this latter requirement they shall be dropped from the roll of the class. This requirement may be waived, for reasons of weight, in the case of students of the fourth class.

### **Laboratories and Drawing Rooms**

20. No student will be allowed without permission in a laboratory or drawing room at a time when his attendance there is not due. During hours assigned for practical work in the laboratories and drawing rooms, the attendance of students is required.

### **Elective Courses Open to Students in the College**

All the studies of the first year, and many of the second-year courses of the School of Mines, the School of Chemistry, the School of Engineering, are included among the electives offered to students of Columbia College (see page 226).

By a judicious arrangement of his course of study from the beginning, a graduate of Columbia College can thus enter the third year of any of the above schools.



**Excursions**

During the session, the students may visit the different mines, machine shops, electrical and metallurgical establishments, chemical works, and points of geological interest of the city and its environs, and excursions for this purpose are frequently organized by the different departments.

**Summer Courses**

SUMMER COURSE IN SURVEYING. (See page 86, also, for fees page 25.)

SUMMER COURSE IN GEODESY. (See page 73.)

SUMMER COURSE IN MINING. (See page 148.)

SUMMER COURSE IN METALLURGY. (See page 142.)

SUMMER COURSE IN GEOLOGY. (See page 111.)

**Equipment and Collections**

Detailed information as to the laboratories, museums, collections, libraries, and other facilities for study and research will be found in the departmental statements as follows:

**Chemistry**, page 80.

**Civil and Sanitary Engineering**, page 85.

**Electrical Engineering**, page 102.

**Geology**, page 110.

**Mechanical Engineering**, page 131.

**Metallurgy**, page 142.

**Mineralogy**, page 144.

**Mining**, page 147.

**Physics**, page 172.

**Chemical and Assay Apparatus**

(See page 26)

**OUTLINE OF PROFESSIONAL COURSES OF STUDY**

(For details as to each course of study see the departmental statements, pages 63-191 of this volume.)

## COURSE IN MINING ENGINEERING

FIRST CLASS	SECOND CLASS	THIRD CLASS	FOURTH CLASS
Chemistry 1 Chemistry 7 Civil Engineering 1 Mathematics 3 <sup>a</sup> Mathematics 3 <sup>b</sup> Mathematics 5 Mech. Engineering 1 Mineralogy 12 Physics 1	Chemistry 12 (2d term) Chemistry 24 Civil Eng. 14 <sup>a</sup> (1st term) Electrical Eng. 7 Geology 2 Mathematics 6 Mech. Engineering 1-2 Mechanics 1 (2d term) Mechanics 21 (1st term)	Chemistry 17 (1st term) Civil Engineering 5 Civil Eng. 6 <sup>a</sup> (2d term) Elec. Eng. 5 and 105 (2d term) Geology 3 Geology 4 (2d term) Mech. Eng. 11 (2d term) Mech. E. 114-115 (1st term) Mechanics 1 (1st term) Metallurgy 1 Metallurgy 5 Mining 1 (1st term) Mining 2 (2d term) Mining 3 (2d term) Mining 7 <sup>a</sup> (2d term) Mineralogy 6 (2d term)	<sup>2</sup> Civil Eng. 12 (2d term) <sup>1</sup> Geology 6 (2d term) <sup>1</sup> Geology 10 (2d term) Geology 16 <sup>a</sup> (2d term) <sup>2</sup> Mech. Engineering 12-13 Mech. Eng. 19 (1st term) <sup>2</sup> Mech. E. 20-21 (2d term) Mechanics 20 (1st term) Metallurgy 2-4 (1st term) Metallurgy 6 <sup>a</sup> (1st term) Mining 4 Mining 5 (2d term) Mining 6 (2d term) Mining 7 Mining 9 (1st term) Mining 10 (1st term) Mining 24 (1st term) Thesis

<sup>1</sup> Geological option.<sup>2</sup> Mining option.

## COURSE IN METALLURGICAL ENGINEERING

FIRST CLASS	SECOND CLASS	THIRD CLASS	FOURTH CLASS
Chemistry 1 Chemistry 7 Civil Eng. 1 Mathematics 3a Mathematics 3b Mathematics 5 Mech. Engineering 1 Mineralogy 12 Physics 1	Chemistry 9 Elec. Engineering 7 Geology 2 Geology 4 (2d term) Mathematics 6 Mech. Engineering 1-2 Mechanics 1 (2d term) Mechanics 21 (1st term) Mineralogy 6 (2d term) Physics 3, practice (1st term)	Chemistry 17 (1st term) Civil Engineering 5 Civil Engineering 6 Elec. Eng. 5 (2d term) Geology 3 Mech. Eng. 2 (1st term) Mech. Eng. 11 (2d term) Mechanics 1 (1st term) Metallurgy 1 (1st term) Metallurgy 3 (2d term) Metallurgy 5 Metallurgy 6 Mining 3 (2d term) Mining 7a (2d term)	Chemistry 4 Chemistry 14 (1st term) Elec. Engineering 3 Mech. Engineering 12-13 Mech. Eng. 19 (1st term) Mech. E. 20-21 (2d term) Mechanics 4 (2d term) Metallurgy 4 (1st term) Mining 4 Mining 5 (2d term) Mining 10 (2d term) Thesis

## COURSES IN ANALYTICAL, ORGANIC, AND INDUSTRIAL CHEMISTRY

First Class	Second Class	Third Class	Fourth Class
Chemistry 1 Chemistry 7 Mathematics 3 <sup>a</sup> Mathematics 3 <sup>b</sup> Mathematics 5 Mech. Engineering 1 Mineralogy 12 Physics 1	Chemistry 3 Chemistry 9 Chemistry 20 Chemistry 24 Elec. Engineering 7 Mathematics 6	Chemistry 10 Chemistry 13 (1st term) Chemistry 17 (2d term) Chemistry 25 Chemistry 26 (2d term) Chemistry 27 (1st term) Chemistry 34 Elec. Engineering 3 Mech. Eng. 11 (2d term) Mechanics 19 Metallurgy 1 and 5 1 2 Mineralogy 8 (2d term)	Chemistry 4 2 Chemistry 14 or 15 Chemistry 21 Chemistry 25 1 2 Chemistry 27 (1st term) 3 Chemistry 28 (2d term) 1 Chemistry 36 3 Elec. Eng. 5 (2d term) Mech. Engineering 12-13 2 Metallurgy 3 (2d term) Metallurgy 2 and 4 (1st term) Thesis

<sup>1</sup> Organic option.<sup>2</sup> Analytical option.<sup>3</sup> Industrial option.



## COURSE IN CIVIL ENGINEERING

FIRST CLASS	SECOND CLASS	THIRD CLASS	FOURTH CLASS
Botany 8 (1st term) Chemistry 1 Chemistry 7 Civil Eng. 1 (2d term) Mathematics 3 <sup>a</sup> Mathematics 3 <sup>b</sup> Mathematics 5 Mech. Engineering 1 Mech. Engineering 103-104 Physics 1	Chemistry 24 Civil Eng. 2 (1st term) Elec. Engineering 7 Geology 18 (2d term) Mathematics 6 Mech. Engineering 2 Mech. Engineering 106 Mechanics 1 (2d term) Mechanics 21 (1st term) Metallurgy 3 (2d term) Mineralogy 5 (1st term) Physics 3, practice	Astronomy 30-31 Civil Engineering 4 Civil Engineering 5 Civil Eng. 6 (2d term) Civil Eng. 7 (1st term) Civil Eng. 8 (1st term) Civil Engineering 14 Elec. Eng. 5 (2d term) Elec. Eng. 105 (2d term) Mech. Eng. 11 (2d term) Mechanics 1 (1st term) Mechanics 4 (2d term)	Astronomy 33 (1st term) Civil Eng. 3 (2d term) Civil Engineering 9 Civil Engineering 10 Civil Eng. 11 (1st term) Civil Eng. 12 (1st term) Civil Eng. 12a (1st term) Civil Eng. 12b (1st term) Civil Eng. 13 (2d term) Mech. Engineering 12-13 Mech. Eng. 19 (1st term) Mech. E. 20-21 (2d term) Mech. Eng. 114, 115 Mechanics 4 (2d term) Thesis

## COURSE IN ELECTRICAL ENGINEERING

FIRST CLASS	SECOND CLASS	THIRD CLASS	FOURTH CLASS
Chemistry 1	Chemistry 11 (1st term)	Civil Engineering 5	Chemistry 37 (1st term)
Chemistry 7	Chemistry 24	Elec. Eng. 1 (1st term)	Elec. Eng. 2 (1st term)
Mathematics 3 <sup>a</sup>	Electrical Engineering 7	Elec. Eng. 4 (2d term)	Electrical Engineering 3
Mathematics 3 <sup>b</sup>	Mathematics 6	Electrical Engineering 10	Elec. Eng. 6 (2d term)
Mathematics 5	Mech. Engineering 2	Elec. Eng. 15 (2d term)	Elec. Eng. 8 (2d term)
Mech. Engineering 1	Mech. Engineering 106-107	Mech. Engineering 12-13	Elec. Engineering 11-12
Mech. Engineering 103-104	Mech. Eng. 110 (2d term)	Mech. Engineering 18	Elec. Eng. 22 (2d term)
Physics 1	Mech. Eng. 11 (2d term)	Mech. E. 114-115 (2d term)	Elec. Eng. 23 (1st term)
	Mechanics 1 (2d term)	Mechanics 1 (1st term)	Elec. Eng. 25 (2d term)
	Mechanics 21 (1st term)	Mechanics 4 (2d term)	Mech. Eng. 19 (1st term)
	Metallurgy 3 (2d term)	Mechanics 6 (1st term)	Mech. Eng. 20-21 (2d term)
	Physics 43, theory	Mechanics 7 (2d term)	Mech. Engineering 117
	Physics 3, practice	Metallurgy 3 (2d term)	Mech. Eng. 124 (1st term)
			Mechanics 4 (2d term)
			Mechanics 8 (1st term)
			Mechanics 9 (2d term)
			Metallurgy 3 (2d term)
			Thesis

## COURSE IN MECHANICAL ENGINEERING

FIRST CLASS	SECOND CLASS	THIRD CLASS	FOURTH CLASS
Chemistry 1 Chemistry 7 Mathematics 3 <sup>a</sup> Mathematics 3 <sup>b</sup> Mathematics 5 Mech. Engineering 1 Mech. Engineering 3-4 Physics 1, theory Physics 3, practice	Chemistry 24 Electrical Engineering 7 Mathematics 6 Mech. Engineering 2 Mech. Engineering 6-7 Mech. Eng. 110 (2d term) Mech. Eng. 11 (2d term) Mechanics 1 (2d term) Mechanics 21 (1st term) Metallurgy 3 (2d term) Physics 3, practice	Elec. Eng. 1 (1st term) Elec. Eng. 4 (2d term) Elec. Eng. 27 (1st term) Mech. Eng. 9 (1st term) Mech. Eng. 10 (1st term) Mech. Engineering 12-13 Mech. Eng. 14, 15 Mech. Engineering 16 Mech. Engineering 18 Mech. Engineering 119 Mech. Engineering 22 Mech. Eng. 30 (2d term) Mech. Engineering 41 Mechanics 1 (1st term) Mechanics 4 (2d term) Metallurgy 3 (2d term)	Elec. Eng. 2 (1st term) Elec. Eng. 8 (2d term) Elec. Eng. 28 (1st term) Elec. Eng. 23 (1st term) Mechanical Engineering 17 Mech. Eng. 19 (1st term) Mech. Eng. 20-21 (2d term) Mech. Eng. 23 (1st term) Mech. Engineering 24 Mech. Engineering 22-28 Mech. Engineering 29-30 3 Mech. Engineering 31 3 Mech. Engineering 32 3 Mech. Engineering 33 3 Mech. Engineering 34 3 Mech. Engineering 42 2 Mech. Engineering 43-48 1 Mech. Engineering 50 Mechanics 4 (2d term) Thesis

<sup>1</sup> Dynamic option.<sup>2</sup> Locomotive option.<sup>3</sup> Marine option.

## REGISTER OF STUDENTS

### School of Mines, Chemistry, and Engineering

#### FOURTH YEAR CLASS

##### MINING ENGINEERS

AGNEW, JAMES CARSON.....(Mhtn) New York City  
BALDWIN, WILLIAM SAGE.....Nyack, N. Y.  
BURBIDGE, THEODORE ALBERT.....Charleston, S. C.  
CAMP, ALBERT ROY.....(Mhtn) New York City  
CHURCH, LENOIR CAMPBELL.....San Francisco, Cal.  
COLLINS, FRANCIS WINFIELD.....Denver, Colo.  
CONSTANT, CHARLES LOUIS, Jr.....(Mhtn) New York City  
CORBET, WILLIAM WAKEFIELD.....Brookville, Pa.  
Yale University, Ph.B., 1900.

FIES, MILTON HENRY.....Birmingham, Ala.  
JULIHN, CARL EDWARD A. V.....Washington, D. C.  
KIDDER, SIDNEY JESSE.....Terre Haute, Ind.  
Rose Polytechnic Institute, B.S., 1900.

LUTHER, EDWIN CORNELIUS.....Pottsville, Pa.  
Princeton University, C.E., 1902.

MAYER, LUCIUS WOLF.....(Mhtn) New York City  
NORSWORTHY, HOWARD RATCLIFFE.....(Mhtn) New York City  
PICKERING, JOHN CLARK.....(Mhtn) New York City  
ROSSBERG, WILLIAM NICHOLAS.....(Mhtn) New York City  
SELLERS, GEORGE MAHLON.....Philadelphia, Pa.  
SMILLIE, SHELDON.....(Mhtn) New York City  
STARAL, FRANK JOSEPH, Jr.....Cleveland, O.  
STOW, SHERMAN HOLLISTER.....Santa Barbara, Cal.  
SWARTZ, CHARLES CHRISTIAN.....South Norwalk, Conn.  
Yale University, A.B., 1900.

TRACY, WILLIAM EVARTS.....Plainfield, N. J.  
Yale University, A.B., 1900.

WATSON, FRANK WHALLEY.....Portland, Ore.  
WEICHSSEL, OSCAR MAURRICE.....Cleveland, O.  
Case School of Applied Science, B.S., 1903.

WHITTIER, WILMOT EDGAR.....Long Beach, Cal.  
Leland Stamford, Jr., University, A.B., 1901.

WILLIAMS, ROBERT YOUNG.....Newark, N. J.  
Princeton University, A.B., 1901.

##### CIVIL ENGINEERS

BENEDICT, FARRAND NORTHROP.....Parsippany, N. J.  
BUDELL, ALFRED EDWARD.....Westfield, N. J.  
CARLETON, ROBERT ANDREW WOOD.....Edgewater, N. J.



CARTER, ALFRED ELLSWORTH.....	Blair, Neb.
CHURCH, ELIHU CUNYNGHAM.....	(Mhtn) New York City
COELOS, JULES AUGUSTE.....	(Mhtn) New York City
GOLDBERG, HERMAN.....	(Mhtn) New York City
College of the City of New York, B.S., 1901.	
HANAN, HERBERT SPENCER.....	(Mhtn) New York City
HAWKESWORTH, JOHN.....	(Mhtn) New York City
HELLER, CLARENCE.....	(Mhtn) New York City
LYON, GEORGE JOHN.....	(Mhtn) New York City
University of Nebraska, B.S., 1899.	
MILES, GEORGE FREDERICK.....	(Mhtn) New York City
MORALES, LUIS PEDROSO.....	(Mhtn) New York City
University of Havana, A.B., B.S., 1899.	
RIONDA, LEANDRO JOSÉ.....	(Mhtn) New York City
Columbia University, Mech. E., 1902.	
ROGERS, AUGUSTUS.....	(Mhtn) New York City
SOLOW, ALEXANDER S.....	(Mhtn) New York City
College of the City of New York, B.S., 1899.	
STEIN, CHARLES RICHARD.....	(Mhtn) New York City
STEINDLER, HENRY.....	(Mhtn) New York City
College of the City of New York, A.B., 1899.	
TYLER, WILLIAM ROGERS.....	(Mhtn) New York City
ZASLAW, MYER.....	(Mhtn) New York City
University of Pennsylvania, B.S., 1897.	

## ELECTRICAL ENGINEERS

ABENDROTH, WILLIAM PHILIP.....	(Mhtn) New York City
ACKER, ALBERT J.....	(Mhtn) New York City
BACON, DANIEL READ.....	Goshen, N. Y.
BARNERT, MEYER.....	Paterson, N. J.
DAY, SALISBURY MARCUS.....	(Mhtn) New York City
DEMERITT, HAROLD SAVERY.....	New Canaan, Conn.
DUDEN, WILLIAM.....	(Br) New York City
HIGBIE, HENRY HAROLD.....	(Mhtn) New York City
HOCKSPRUNG, GEORGE WERNER.....	(Bklyn) New York City
HOLMES, DUNCAN ARGYLE.....	(Mhtn) New York City
HOWE, ARTHUR OTIS.....	Newfane, Vt.
University of Vermont, B.S., 1897.	
JACOBSON, SAMUEL OSCAR.....	(Mhtn) New York City
College of the City of New York, B.S., 1897.	
JARCHO, ISAIAH.....	(Mhtn) New York City
LEWINE, RAYMOND SAKOLSKI.....	(Mhtn) New York City
LEWINSON, LEONARD JULIAN.....	(Mhtn) New York City
MENGES, CHARLES PETER.....	(Mhtn) New York City
SANGER, CHARLES FRANK.....	(Mhtn) New York City
SCHAUS, CARL JOSEPH.....	(R) New York City
SCHNEIDER, CARL ALBERT.....	Teziutlan, Mex.
SCHWABACHER, FRANKLIN.....	San Francisco, Cal.
SERINGHAUS, FREDERICK WILLIAM, Jr.....	(Mhtn) New York City
STRONG, CHESTER FRED.....	Des Moines, Iowa
Highland Park College, E.E., 1903.	
WALTER, JOHN CHARLES.....	Baltimore, Md.
WITTIG, GUSTAV FREDERICK.....	New Brunswick, N. J.
Rutgers College, B.S., 1896.	

## MECHANICAL ENGINEERS

ARNOLD, STANFIELD NICHOLS.....	(Mhtn) New York City
BORSODY, ALEXANDER.....	(Mhtn) New York City
CAMPBELL, RALPH.....	(Mhtn) New York City
CARDO, LUIS ALBERTO.....	Guayaquil, So. America
COOK, THOMAS FOWKE.....	(Mhtn) New York City
DENISON, GRISWOLD, II.....	(Bklyn) New York City
GILLIES, WILLIAM FERDON.....	Montclair, N. J.
GOODRICH, JOHN SERRE.....	(Mhtn) New York City
GRANT, HARRY ALLEN.....	Tarrytown, N. Y.
HOWELL, JOHN JACOB.....	(Mhtn) New York City
HULBERT, WILLIAM ROWSELL.....	(Mhtn) New York City
PARR, HARRY LILIENTHAL.....	Yonkers, N. Y.
Columbia University, A.B., 1902.	
RIEDEL, CARL OSCAR.....	(Bklyn) New York City
SCHREIBER, CARL THEODORE.....	(Bklyn) New York City
STANGLAND, ROBERT SEDGWICK.....	Morton, N. Y.
SWART, CLIFFORD TOWNSEND.....	Mt. Vernon, N. Y.
TERRY, RAPHAEL RUFO.....	(Mhtn) New York City
WEINRICH, MORRIS FRANK.....	Yonkers, N. Y.
WILLHOFFT, FRIEDRICH OTTO.....	(Mhtn) New York City
Testimonium Maturitatis, Kgl. Gymnasium, Leipzig.	
WYLD, ROBERT HASBROUCK.....	(Mhtn) New York City

## METALLURGISTS

CLARK, WILLIAM MOULTON.....	Ansonia, Conn.
Harvard University, B.S., 1903.	
NEUGASS, SOLOMON.....	(Mhtn) New York City

## CHEMISTS

BERG, WILLIAM NATHAN.....	(Mhtn) New York City
COX, HAROLD NEWTON.....	(Bklyn) New York City
FALK, MILTON J.....	(Mhtn) New York City
PICKARD, GLENN HUNTINGTON.....	Cleveland, O.

## FOURTH YEAR CLASS

Mining Engineers.....	26
Civil ".....	20
Electrical ".....	24
Mechanical ".....	20
Metallurgists.....	2
Chemists.....	4
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## THIRD YEAR CLASS

## MINING ENGINEERS

AICHER, FRANK ALBERT.....	Denver, Colo.
ARGALL, GEORGE O.....	Denver, Colo.
ARNOLD, LAWRENCE SEPTIMUS.....	(Mhtn) New York City
BAMBERGER, SIDNEY M.....	Salt Lake City, Utah
BAUERNEBL, AUGUST JOSEPH, JR.....	Newark, N. J.
BERRY, EDWIN STEWART.....	San Francisco, Cal.
BOARDMAN, DONALD.....	Philadelphia, Pa.
BUELL, THOMAS RECTOR.....	Herndon, Va.
CARRINGTON, WARING.....	(Mhtn) New York City
CASE, ALBERT HERMON.....	Springville, Mich.
Michigan Agricultural College, B.S., 1902.	

- CATRON, JOHN WALZ.....Santa Fe, New Mex.  
 COOK, FREDERICK STEPHEN.....St. Paul, Minn.  
 COOPER, EVERITT MORTON.....(Mhtn) New York City  
 DANTZIGER, CLARENCE TIM.....(Mhtn) New York City  
 DECKER, CARL HENRY.....Albuquerque, N. Mex.  
     Wartburg College, A.B., 1897.  
 DEMAREST, WILLIAM GUSTAVUS.....(Mhtn) New York City  
 DONOVAN, PERCY WILLIAMS.....Dundas, Minn.  
 DYER, HAROLD PENNOCK.....St. Paul, Minn.  
 ERNEST, RICHARD HERMANN.....Denver, Colo.  
 FISHER, THOMAS EUSTACE.....(Mhtn) New York City  
 FRAMBACH, CHARLES LEWIS.....Cheboygan, Mich.  
 FRANK, ALBERT.....(Mhtn) New York City  
 FRASER, ALEXANDER JOHN.....(Br) New York City  
 GEIGER, ARTHUR WILLIAM.....Boston, Mass.  
 GODWIN, VICTOR.....(Mhtn) New York City  
 GRISWOLD, CLYDE TYLER.....Cortland, N. Y.  
     Amherst College, A.B., 1903.  
 HAHNEL, AUGUST FRANK.....(Br) New York City  
 HATCH, HAMLIN BROOKS.....(Mhtn) New York City  
 HIRSCHBERG, CARL NELSON.....Buffalo, N. Y.  
 JACOBS, SYDNEY BRADSHAW.....Yonkers, N. Y.  
 JONES, RICHARD M.....Allegheny, Pa.  
     Oberlin College, A.B., 1902.  
 KRAUT, MAX.....(Mhtn) New York City  
 LOVEMAN, HERBERT SPENCER.....(Mhtn) New York City  
     Columbia University, A.B., 1903.  
 MCCUNE, RAYMOND.....Salt Lake City, Utah  
 MCCURDY, ELLIOTT STEELE.....Wilmington, Del.  
 MARBLE, RALPH NORRIS.....Duluth, Minn.  
 MARTIN, RALPH.....London, England  
 MEAD, HARRY LEVI.....Aurora, Ill.  
 MOSHER, MELVIN A.....Salt Lake City, Utah  
 NICOLL, GILBERT LEE.....(Mhtn) New York City  
 PARKER, FRED LINNS.....Salt Lake City, Utah  
 PAYSON, HAROLD.....Bristol, R. I.  
 PITNER, PAUL JEROME.....Evanston, Ill.  
 PORTER, JESSE COOMBS.....(Bklyn) New York City  
 POWELL, FREDERICK JAMES.....(Mhtn) New York City  
 PRATHER, JOHN KIRKPATRICK.....Waco, Tex.  
     University of Texas, B.S., 1897.  
 RING, AMBROSE ELY.....(Mhtn) New York City  
 ROHLFS, OTTO DIEDRICH.....Seattle, Wash.  
 ROLLE, SIDNEY.....(Mhtn) New York City  
 ROTHSCHILD, CLARENCE GEORGE.....(Mhtn) New York City  
 RUBIDGE, HAROLD SPALDING.....Denver, Colo.  
     University of Colorado, B.S., 1903.  
 SCHMITT, FREDERICK WILLIAM.....Lewistown, Mont.  
     Montana Agricultural College, B.S., 1903.  
 SCOTT, ARTHUR CLEVELAND.....Westchester, N. Y.  
 SHERRON, GEORGE AUSTIN.....Rowayton, Conn.  
 SMITH, WEBSTER TEMPLE.....Chicago, Ill.  
 STEVENS, EARL CLARK.....Deadwood, S. Dak.  
 TALCOTT, MORRIS GARDNER.....Talcottville, Conn.  
     Yale University, A.B., 1902.  
 WALLOWER, FRANK CARMANY.....Harrisburg, Pa.  
     Princeton University, C.E., 1903.

WALZ, ANDREW.....	(Mhnt) New York City
WARNER, ARTHUR HOBART.....	St. Paul, Minn.
WHEELER, BLEECKER LANGDON.....	(Mhnt) New York City
WOODS, WILLIAM ABBOTT EDWARD.....	San Francisco, Cal.

## CIVIL ENGINEERS

BARSELL, FREDERICK BAYARD.....	(Mhnt) New York City College of the City of New York, B.S., 1902.
BEHRMAN, SAMUEL.....	(Mhnt) New York City
BENHAM, WEBSTER LANCE.....	(Mhnt) New York City
BENJAMIN, HERBERT ISIDOR.....	(Mhnt) New York City
BISHOP, HARTWELL.....	(Mhnt) New York City Harvard University, A.B., 1903.
BRADY, THOMAS JOSEPH, JR.....	(Mhnt) New York City
CORNELL, MILTON LONGACRE.....	(Mhnt) New York City
CROWELL, FRANCIS STIRLING.....	(Q) New York City
DERLETH, WALTER TAUBERT.....	(Br) New York City College of the City of New York, B.S., 1901.
HEYMAN, WILLIAM.....	Jersey City, N. J.
HUMPHREY, FREDERIC LEAROYD.....	(Bklyn) New York City
LAZINSK, ABRAHAM.....	(Mhnt) New York City College of the City of New York, A.B., 1902.
LUCAS, ROBERT JAMES.....	(Br) New York City
MATTHEWS, CHARLES EARL.....	Newark, N. J.
OWEN, KENNETH DUNHAM.....	Montclair, N. J.
SCHWARZ, SAMUEL ALEXANDER.....	(Mhnt) New York City College of the City of New York, A.B., 1902.
SHIELDS, HAROLD.....	Nicholson, Pa. Columbia University, A.B., 1903.
STEEGMULLER, CHARLES ALBERT AUGUSTINE.....	South Norwalk, Conn.
TETLEY, THOMAS ROBINSON, JR.....	(Mhnt) New York City
TRUBENBACH, CONRAD D.....	(Mhnt) New York City College of the City of New York, B.S., 1902.
WILSON, ROBERT CLIFFORD.....	Newark, N. J.
WILSON, WILLIAM LE ROY.....	Springfield, Ill.

## ELECTRICAL ENGINEERS

BAUM, HARRY.....	(Mhnt) New York City College of the City of New York, B.S., 1902.
BLEYER, ARTHUR.....	(Mhnt) New York City
BRADLEY, WALTER EDWARD F.....	(Mhnt) New York City
CHANDLER, HENRY KING.....	(Mhnt) New York City
DALY, WILFRID AUGUSTIN.....	Yonkers, N. Y.
DROGE, HARMAN GRABAU.....	(Q) New York City
GOLDBERG, HARRY.....	(Mhnt) New York City College of the City of New York, B.S., 1902.
GUTMAN, EDWIN JULIUS.....	Baltimore, Md.
HAAS, HENRY CHARLES.....	(Mhnt) New York City
HAIGHT, LOUIS HENRY.....	Amityville, N. Y.
HOOPER, GEORGE HEBERTON, JR.....	(Mhnt) New York City
KOHLER, LOUIS FRANK.....	(Mhnt) New York City
LEWIS, HAROLD GOULD.....	Lincoln, Neb.
NEWTON, EARLE ROTH.....	Haverstraw, N. Y.
PIERCE, WALTER LIDGERWOOD SMILLIE.....	Scarborough, N. Y.
POLLAK, LEO L.....	(Mhnt) New York City College of the City of New York, B.S., 1902.



REID, EUGENE JOSEPH.....	(Br) New York City
SCHOENBORN, WILLIAM ROBERT.....	Hackensack, N. J.
SIMONS, ARTHUR GARRETSON.....	(R) New York City
SNEDCKER, CLARENCE FELTER.....	Haverstraw, N. Y.
STOUTENBURGH, CHARLES HALL.....	(Mhtn) New York City
TRIPPE, WILLIAM HERON.....	East Orange, N. J.
VAN WAGENEN, EDWARD.....	(Mhtn) New York City
WARD, FREDERICK ELLIS.....	(Mhtn) New York City
WERNER, GERARD BERNARD.....	(Mhtn) New York City
Columbia University, A.B., 1903.	
WHEELER, BURRITT NASH.....	(Mhtn) New York City
WINETRAUB, ADOLPH ISRAEL M.....	(Mhtn) New York City
Lycée, Braïla, Roumania (equiv. A.B.),	
WOLFF, WILLIAM AUGUST.....	(Mhtn) New York City

## MECHANICAL ENGINEERS

ALEXANDER, LUDWELL BROOKE.....	(Mhtn) New York City
ASHLEY, RALPH EARL.....	Denver, Colo.
BIGLOW, LEMUEL CAVALLI.....	(Mhtn) New York City
BURCH, THOMAS HAMILTON, Jr.....	(Mhtn) New York City
DE LA TORRE, MANUEL.....	(Mhtn) New York City
Havana University, A.B., B.S., 1895.	
ESCOTO, CARLOS J.....	(Mhtn) New York City
FISHER, HARRY ANNIS.....	(Mhtn) New York City
HOLLMANN, FREDERICK WILLIAM.....	(Mhtn) New York City
MEAD, THEODORE, JR.....	Newark, N. J.
MERRITT, LUCIUS ROBINSON.....	(Mhtn) New York City
NUSIM, MELACH JOSEPH.....	(Mhtn) New York City
Lycée reale, Braïla, Roumania, (equiv. A.B.)	
SHEA, LEOPOLD D. V.....	(Mhtn) New York City
STRONG, ROBERT MARQUIS.....	Pasadena, Cal.
STRUSS, WILLIAM EDWARD.....	(Mhtn) New York City
UPDIKE, DAVID MONTGOMERY.....	(Mhtn) New York City
WESTBROOK, FRANCIS ABEKEN.....	(Bklyn) New York City

## METALLURGISTS

NEBEKER, AQUILA CHAUNCEY.....	Logan, Utah
Agricultural College, B.S., 1903.	
WILLIAMS, REMSEN TAYLOR.....	(Q) New York City

## CHEMISTS

DOTY, HENRY SAPPORD.....	Yonkers, N. Y.
HAHN, ALBERT WILLIAM.....	(Mhtn) New York City
METTLER, ARTHUR JULIUS.....	(Bklyn) New York City

## THIRD YEAR CLASS

Mining Engineers.....	62
Civil ".....	22
Electrical ".....	28
Mechanical ".....	16
Metallurgists.....	2
Chemists.....	3

## SECOND YEAR CLASS

## MINING ENGINEERS

ANDERSON, GLENN.....	White Sulphur Springs, Mont.
ASHMEAD, DEVER CAMPBELL.....	Yonkers, N. Y.
AUERBACH, HERBERT S.....	Salt Lake City, Utah
BAXTER, HAROLD.....	(Mhtn) New York City
CANNON, HERBERT GROVE.....	Cleveland, O.
CHURCH, JOHN ADAMS, Jr.....	(Mhtn) New York City
DE SALLIER DU PIN, RENÉ ALEXANDER.....	Watertown, N. Y.
DESPARD, CHARLES SMITH, Jr.....	Parkersburg, W. Va.
St. John's College, A.B., 1902.	
DIER, ALFRED AUSTIN.....	Bozeman, Mont.
DOON, CHARLES W.....	(Mhtn) New York City
DRUDING, FRANK DANIEL.....	(Mhtn) New York City
DUNN, DREW HAVEN.....	(Mhtn) New York City
EDDINGFIELD, FRANK TRAVERS.....	Washington, D. C.
EDEBOHLS, ALPHONSE JULIUS.....	(Mhtn) New York City
St. John's College, A.B., 1902.	
ENOS, HERBERT CORY.....	Denver, Colo.
EVANS, ALFRED WINTER.....	Kingsdown, Durban, So. Africa
FARRELLY, STEPHEN VALENTINE.....	Morristown, N. J.
FLANDERS, JOHN AIKEN.....	Glencoe, Ill.
FOWLER, EDWARD CHARLES.....	Canon City, Colo.
FULTON, CHESTER ALAN.....	Yonkers, N. Y.
GIBERT, FREDERIC EDWARD, Jr.....	Biarritz, France.
GOLDMAN, MARCUS ISAAC.....	(Mhtn) New York City
Harvard University, A.B., 1901; B.S., 1902	
HAIGHT, CLARENCE MICHAEL.....	(Mhtn) New York City
HOUSE, HENRY ARTHUR.....	Duluth, Minn.
HOWELL, JOSEPH MAUGHAN.....	Logan, Utah
HUGHES, GROVER.....	(Mhtn) New York City
JOHNSON, ARTHUR MICHAEL.....	Canal Dover, O.
JOHNSON, ROBERT McL.....	Newark, N. J.
KANSKI, ROMAN PARKER.....	(Mhtn) New York City
KELLOGG, LEE OLDS.....	St. Paul, Minn.
University of Minnesota, A.B., 1902.	
KING, HAROLD FREDERIC.....	East Orange, N. J.
KINSEY, REGINALD GEORGE.....	Southampton, England
KNIFFIN, LLOYD MALCOLM.....	Paterson, N. J.
KRUEGER, KARL PAUL.....	Bozeman, Mont.
KRUSE, FREDERICK, Jr.....	Central City, Colo.
KURZENKNABE, FRANCIS EARL.....	Harrisburg, Pa.
LANDERS, MARSDEN HENRY.....	San Francisco, Cal.
LAWRIE, HAROLD NEWBOLD.....	Atlantic Highlands, N. J.
LINDSLEY, GEORGE LEONARD.....	Orange, N. J.
McCLAIN, HENRY GRIFFITHS.....	Iowa City, Iowa
State University of Iowa, A.B., 1903.	
MACKALLOR, DE WITT CLINTON.....	(Mhtn) New York City
MERRICK, GALE CLIFFORD.....	St. Paul, Minn.
MILLS, RONALD VAN AUKEN.....	Washington, D. C.
MILTENBERGER, GEORGE, Jr.....	St. Louis, Mo.
MITCHELL, WILLIAM SPINGLER.....	(Mhtn) New York City
MOSES, ABRAHAM.....	(Mhtn) New York City
College of the City of New York, A.B., 1903.	
NORRIS, EDWARD MERRITT.....	(Mhtn) New York City
PATTERSON, SEELY BENEDICT, Jr.....	Allentown, Pa.

PETTIGREW, FRANK SAWTELLE.....	(Mhtn) New York City
POCOCK, CECIL WALTER.....	Bayonne, N. J.
POPPER, EDWIN.....	(Mhtn) New York City
PRENTIS, EDMUND ASTLEY, JR.....	(Mhtn) New York City
RODEN, BENJAMIN FRANKLIN, JR.....	Birmingham, Ala.
Howard College, C.E., 1902.	
ROGERS, ROBERT BENSON.....	(Mhtn) New York City
SAGE, WARREN MORRILL.....	(Mhtn) New York City
SCHULTZ, ROBERT SPENCER, JR.....	Philadelphia, Pa.
SEDGWICK, ALLAN ERNEST.....	York, Neb.
SEIFERT, HANS FREDERICK.....	Jersey City, N. J.
SILVERMAN, HERBERT LUPLIN.....	Butte, Mont.
SIMPSON, KENNETH MILLER.....	Beaver Falls, Pa.
Columbia University, A.B., 1903.	
SUYDAM, ALBERT GODFREY.....	Ridgefield, N. J.
TAYLOR, HENRY BOWMAN.....	Kansas City, Mo.
TENNEY, JAMES BRAND.....	Tientsin, China
THOMAS, CHARLES SEWELL, JR.....	Denver, Colo.
VAN SICLEN, MATTHEW.....	Cornwall, N. Y.
Amherst College, A.B., 1902.	
VAN WAGENEN, HUGH R.....	Denver, Colo.
WEST, HENRY JAMES.....	Garnerville, N. Y.
Columbia University, A.B., 1902.	
WILCOX, SIDNEY H.....	(Mhtn) New York City
WILLARD, PAUL DAY.....	Riverside, Cal.
WILLETS, ROBERT HENRY.....	Roslyn, N. Y.
WILLIS, RUSSELL HENRY.....	(Mhtn) New York City

## CIVIL ENGINEERS

ALLEN, CLEVELAND.....	(Mhtn) New York City
BAYLIS, ROSWELL SPENCER.....	Huntington, L. I.
BECKER, RUDOLPH CONRAD.....	(Mhtn) New York City
College of the City of New York, B.S., 1903.	
BLAKE, WILLIAM L.....	Bangor, Pa.
BODE, WILLIAM ADOLF.....	(Mhtn) New York City
CHURCHILL, LEWIS THOMAS.....	Dunellen, N. J.
CLARKSON, JULIAN GIRARD.....	(Mhtn) New York City
COSGROVE, JOHN DANIEL.....	(Bklyn) New York City
DE LARA, FRANK BELASCO.....	(Mhtn) New York City
DEUTSCH, MAURICE.....	(Mhtn) New York City
DOUGHTY, JOHN BODINE.....	Jericho, N. Y.
FINCH, JAMES KIP.....	(Mhtn) New York City
FRANC, CARL BENJAMIN, JR.....	(Bklyn) New York City
GOODWIN, HENRY HARRISON.....	Medina, N. Y.
GREENE, RUSSELL DE COSTA.....	(Mhtn) New York City
HOSFORD, LEONARD POST.....	(Bklyn) New York City
KEYS, EDWIN CORNELIUS, JR.....	(Mhtn) New York City
KILIAN, THEODORE PHILIP.....	(Mhtn) New York City
KLINE, HENRY JAMES.....	(Mhtn) New York City
LODER, IRVING HOWARD.....	Port Chester, N. Y.
MCDONNELL, ALEXANDER JOSEPH.....	(Mhtn) New York City
MALCOLMSON, ALFRED SIDNEY.....	Orange, N. J.
OTT, CHARLES A.....	(Mhtn) New York City
POLISHOOK, SAMUEL NOAH.....	(Mhtn) New York City
SCHWEGLER, GEORGE.....	(Mhtn) New York City
SIGMUND, BENJAMIN JOSEPH.....	(Mhtn) New York City
THOMAN, WILLIAM FREDERICK.....	(Mhtn) New York City
Columbia University, A.B., 1903.	

- TOLL, ROGER WOLCOTT.....(Mhtn) New York City  
 VEVE, SANTIAGO.....Fajardo, Puerto Rico  
 VOM SAAL, FRED MAXIMILIAN.....(Mhtn) New York City

## ELECTRICAL ENGINEERS

- BOLTON, ARTHUR THOMAS.....(Br) New York City  
 BOOSS, FREDERICK E.....(Mhtn) New York City  
 BOWIE, WILLIAMSON BOURDETTE.....(Bklyn) New York City  
 CAMPBELL, CLARENCE LEWIS.....(Mhtn) New York City  
 CARLEBACH, WALTER MAXWELL.....(Mhtn) New York City  
 COSTELLO, THOMAS JOSEPH.....(Mhtn) New York City  
 EBLING, ROBERT WILLIAM.....(Br) New York City  
 FERENCZY, ARTHUR.....(Mhtn) New York City  
     Reale schule, Hungary, (equiv. A.B.), 1902.  
 FETTRECH, CHARLES SIMMONS.....(Mhtn) New York City  
 FINKEL, ISIDORE HENRY.....(Mhtn) New York City  
 FORD, FREDERIC CARPENTER.....(Mhtn) New York City  
 FREUND, MORTIMER.....(Mhtn) New York City  
 GILLIES, JOHN WALLACE.....Flushing, N. Y.  
 GOLDBERG, SAMUEL.....(Bklyn) New York City  
     College of the City of New York, A.B., 1902.  
 HAINES, EDWARD JOSEPH.....(Bklyn) New York City  
 HARRISON, ALFRED.....Tacna, Chile, So. America  
 HERTZ, HENRY LAWRENCE.....(Mhtn) New York City  
     College of the City of New York, B.S., 1901.  
 KAUFMAN, ALFONSE.....(Mhtn) New York City  
 KILBOURNE, COVINGTON GUION.....(Mhtn) New York City  
 KIRSCHBERG, HAROLD.....(Mhtn) New York City  
     College of the City of New York, B.S., 1903.  
 KNAKAL, WILLIAM ROBERT.....(Mhtn) New York City  
     College of the City of New York, B.S., 1903.  
 KNIGHT, CHARLES CUDLIPP.....(Mhtn) New York City  
 LEBOWITZ, WILLIAM.....(Mhtn) New York City  
 LITCHFIELD, ROBERT BACH.....(Bklyn) New York City  
 McCABE, EDWARD HENRY, JR.....(Mhtn) New York City  
     Delaware, College, A.B., 1899.  
 MCCARTHY, CHARLES DENNIS.....(Bklyn) New York City  
 McMORROW, CHARLES P.....(Mhtn) New York City  
 MERKLINGER, THEODORE EMIL.....Newark, N. J.  
 MILLER, WILLIAM NORTON.....Kenton, O.  
 MORRIS, ALFRED BUTT.....(Mhtn) New York City  
 MULLER, AUGUST MICHAEL.....(Br) New York City  
 NIEMANN, EDWARD.....(Mhtn) New York City  
     College of the City of New York, B.S., 1903.  
 O'NEIL, LEO FRANCIS DREW.....Boston Mass.  
     Boston College, A.B., 1902.  
 PALMER, AUSTIN PHELPS.....(Bklyn) New York City  
 POPCKE, ARTHUR GEORGE.....(Mhtn) New York City  
 READ, JAMES PAULDING.....Newark, N. J.  
     Rutgers College, B.S., 1901.  
 RHAME, JOHN FOOTE.....Wantagh, N. Y.  
 ROCHESTER, THOMAS WALTER.....(Mhtn) New York City  
 SAQUI, EMANUEL.....(Mhtn) New York City  
 SCHREIBER, HENRY W., JR.....(Bklyn) New York City  
 SCHWARZKOPF, WILLIAM.....(Mhtn) New York City  
 SOLOW, DAVID EDWARD.....(Br) New York City



SUSSMAN, MAX HIRSCH.....	Mohegan, Conn.
TANZ, ISADORE.....	(Mhtn) New York City
College of the City of New York, B.S., 1903.	
WATKINS, SAMUEL SHELTON, Jr.....	Owensboro, Ky.
WEISS, HAROLD LAWRENCE.....	(Mhtn) New York City
WIECHERS, JOHN HENRY.....	Mexico City, Mex.
WILLIAMS, WILSON BISSELL.....	Jersey City, N. J.

## MECHANICAL ENGINEERS

ASHLEY, EUGENE.....	(Mhtn) New York City
BARNABY, JAMES CHRISTY.....	(Mhtn) New York City
BENSON, CLYDE.....	Nyack, N. Y.
BORSODY, LOUIS.....	(Mhtn) New York City
BRADLEY, GEORGE ROWLAND.....	(Mhtn) New York City
BULLEY, GEORGE WILSHEAR.....	(Bklyn) New York City
CARPENTER, HAROLD NATHANIEL.....	North Hoosick, N. Y.
CASSERLY, FRANCIS PATRICK.....	(Mhtn) New York City
CONNELLY, WILLIAM HENRY.....	Wilmington, Del.
CURTIS, GERALD BECKWITH.....	Brookfield Center, Conn.
DEL RIO, RAMON.....	Barcelona, Spain
DUNCOMBE, FREDERIC HOWE.....	Mt. Vernon, N. Y.
DUNLOP, WILLIAM CARRINGTON.....	Richmond, Va.
FLUHRER, LEWIS PULLMAN.....	(Mhtn) New York City
FOWLER, ELBERT.....	Griffin, Ga.
FRIED, JEROME ARTHUR.....	(Mhtn) New York City
GRACE, CECIL STANLEY.....	Kent, England
GUERRICH, FRED C.....	(Mhtn) New York City
HOBART, DOUGLAS ROSEBERRY.....	(Mhtn) New York City
HUTTON, MANCIUS SMEDES.....	(Mhtn) New York City
KING, CHARLES ARTHUR.....	Plainfield, N. J.
LOCKWOOD, FRANCIS WETMORE.....	Jersey City, N. J.
MCINTYRE, MALCOLM.....	(Mhtn) New York City
MEAD, RAYMOND HINMAN.....	Newark, N. J.
MILLWARD, JAMES BROOMFIELD.....	(Mhtn) New York City
MORRIS, HOWARD IRVING.....	(Bklyn) New York City
NAYLOR, GEORGE, JR.....	Peekskill, N. Y.
OLYPHANT, ROBERT MORRISON, JR.....	(Mhtn) New York City
PIGOTT, REGINALD JAMES SEYMOUR.....	(Mhtn) New York City
PROTHEROE, ROBERT.....	Port Chester, N. Y.
PUTNAM, WORCESTER.....	Brookline, Mass.
RIDDER, JOSEPH EDWARD.....	(Mhtn) New York City
RUHE, ARTHUR.....	(Mhtn) New York City
STROBRIDGE, GEORGE.....	(Mhtn) New York City
SUTRO, HERBERT ADOLF.....	(Mhtn) New York City
THORP, THOMAS JAMES.....	(Mhtn) New York City
TURNBULL, WILLIAM FYFE.....	(Mhtn) New York City
Columbia University, A.B., 1903.	

WERNER, LESTER ARTHUR.....(Mhtn) New York City

## SANITARY ENGINEER

MERRITT, JAMES HARRISON.....Tarrytown, N. Y.

## METALLURGISTS

DUDEN, FREDERICK HENRY.....	(Br) New York City
Columbia University, A.B., 1902.	
GREENWOOD, JOHN WASHBURN.....	Limestone, N. Y.
HESS, EDWARD.....	(Mhtn) New York City
SHIPP, ELLSWORTH MALTBY.....	Newburgh, N. Y.

## CHEMISTS

BOYNTON, WILLIAM HENRY.....	Nyack, N. Y.
FORST, LEON BERTHOLD.....	Louisville, Ky.
University of Louisville, A.B., 1902.	
HOLLIDAY, EDGAR PERCY.....	(Bklyn) New York City
KIRBY, CUTHBERT MOULLINARD.....	(Q) New York City
KRESS, OTTO.....	(Mhtn) New York City
MESTRE, HAROLD V.....	(Mhtn) New York City
NIEDER, PHILIP GEORGE.....	Fanwood, N. J.
NOLTHENIUS, PAUL TUTEIN.....	Amsterdam, Holland
RUPP, FREDERICK LOUIS.....	(Mhtn) New York City
SEIL, HARVEY AMBROSE.....	Perth Amboy, N. J.
SINCLAIR, J. EDWIN.....	Newark, N. J.
WIGGIN, JOHN DAVID.....	Orange, N. J.
WIGGIN, ROLLIN HENRY.....	Orange, N. J.

## SECOND YEAR CLASS

Mining Engineers.....	71
Civil ".....	30
Electrical ".....	48
Mechanical ".....	38
Sanitary ".....	1
Metallurgists.....	4
Chemists.....	13
	205

## FIRST YEAR CLASS

## MINING ENGINEERS

ARCHBALD, HUGH.....	Scranton, Pa.
Yale University, A.B., 1903.	
BEATTIE, HAROLD MAIRS.....	(Mhtn) New York City
BRILL, PAUL KORTRIGHT.....	(Bklyn) New York City
BURDETTE, RICHARD STUART.....	Cliffside, N. J.
CLAPP, LAWRENCE RIPLEY.....	(Mhtn) New York City
DEHUFF, ARTHUR ISADORE.....	Spokane, Wash.
DICKERSON, LEONARD ROY.....	Chicago, Ill.
DONNELLY, THOMAS FRANCIS.....	(Mhtn) New York City
DOTY, OLIVER KEESE.....	(Mhtn) New York City
DUSEL, WILLIAM JOHN.....	(Mhtn) New York City
ELSING, MORRIS JESUP.....	(Bklyn) New York City
FLEISSNER, GUSTAV LUDWIG.....	(Mhtn) New York City
GUGGENHEIM, MEYER ROBERT.....	(Mhtn) New York City
GUINCHARD, ALEJANDRO.....	Mexico City, Mex.
HILL, HAROLD WILLIAM.....	Buffalo, N. Y.
HOCHSCHILD, SALI.....	Frankfurt, Germany
Realgymnasium, Worms, Germany (equiv. A.B.), 1903.	
HOLMQUIST, GUSTAVE SEBASTIAN.....	(Mhtn) New York City
HOYT, JOHN ROBERTSON.....	(Mhtn) New York City
JOHNSON, FRANCE DAVIS.....	Nome, Alaska
JOHNSON, HORMAN NORTON.....	Binghamton, N. Y.
Amherst College, A.B., 1903.	
LEWIN, JOHN C.....	Port Chester, N. Y.
LITTLE, JAMES MACFARLANE.....	Towanda, Pa.
LONGWELL, ROBERT A.....	(Mhtn) New York City
LUND, FRANCIS NAPIER.....	(Mhtn) New York City
MCCLAIVE, DONALD.....	(Mhtn) New York City
MALLALIEU, WILLARD CONVERSE.....	(Bklyn) New York City

MUIR, DOWNIE DAVIDSON, Jr.....	(Mhtn) New York City
OWEN, WILLIAM ROLAND, Jr.....	Denver, Colo.
ROBERTS, JOHN THOMAS, Jr.....	Wanakah, N. Y.
SAYRE, MORTIMER FREEMAN.....	Newark, N. J.
SHEARMAN, WILLIAM HUGH.....	(Mhtn) New York City
STEPHENS, RODERICK.....	(Br) New York City
STRAUS, PHILIP RAYNER.....	Baltimore, Md.
Johns Hopkins University, A.B., 1903.	

STREBER, FERDINAND RICHARD.....	Honduras, Central America
TAFT, THOMAS KNAPP.....	Cornwall, N. Y.
TULLOCH, THOMAS HILDRUP.....	Forest Glen, Md.
UNTERMYER, IRWIN.....	(Mhtn) New York City
VON PUSTAU, CARL, Jr.....	(Bklyn) New York City
WILLIAMS, JOHN HERBERT ANWYL.....	(Mhtn) New York City
YOUNG, ELMER V.....	(Bklyn) New York City

## CIVIL ENGINEERS

AMES, GEORGE PARKER.....	(Q) New York City
ATWATER, HUNTINGTON CLARK.....	Denver, Colo.
BABCOCK, DUDLEY PAUL.....	Fanwood, N. J.
BERGMAN, HARRY MONTIFIPORE.....	(Mhtn) New York City
BOSWORTH, WILLIAM HAMLIN.....	(Bklyn) New York City
BROWN, OTTO.....	(Mhtn) New York City
DICKSON, CHARLES FRANCES.....	Cincinnati, O.
DODMAN, ALFRED CHARLES, Jr.....	(Mhtn) New York City
DOWD, WILLIAM JOSEPH.....	Newark, N. J.
St. Francis Xavier College, A.B., 1901.	

GARDINER, CHARLES ROCKWELL.....	(Mhtn) New York City
GORREN, DANIEL.....	Rye, N. Y.
GRAFF, CHARLES JOHN.....	(Br) New York City
HAMILTON, THOMAS HAYDEN.....	(Mhtn) New York City
HARRINGTON, DANIEL JOSEPH.....	(Mhtn) New York City
JEAL, EDWARD RAYNOR.....	Lawrence, N. Y.
KNIGHT, JOHN LINDMARK.....	(Mhtn) New York City
KRÖGER, HENRY ANDREW.....	Spuyten Duyvil, N. Y.
LANDSMAN, SIGMUND.....	(Mhtn) New York City
LISMAN, OLIVER CROMWELL.....	Mt. Vernon, N. Y.
LYNN, HENRY HUDSON EDWIN.....	(Mhtn) New York City
MARTIN, GEORGE FRED.....	(Br) New York City
MENOCAL, JOSEPH G.....	Havana, Cuba
MEYER, HANS FRANK.....	(Mhtn) New York City
PERRY, ARTHUR CECIL FOX.....	(Br) New York City
RENNER, FRANK AXTELLE.....	(Br) New York City
ROBERT, CHARLES SIMPSON.....	Plainfield, N. J.
SCHWANEFLUGEL, CHARLES ALBERT.....	(Q) New York City
SHAPIRO, MICHAEL.....	(Mhtn) New York City
STUHRMAN, EDWARD AHLERT.....	(Mhtn) New York City
TAYLOR, RICHARD MAXWELL.....	(Mhtn) New York City
WHITE, THOMAS FRANCIS, Jr.....	Cedarhurst, N. Y.
WEINTRAUB, VICTOR.....	(Mhtn) New York City
YAVROUMIS, GEORGE.....	Vytina, Greece
French American College, A.B., 1903.	

ZABRISKIE, GEORGE ELMER.....	Newark, N. J.
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## ELECTRICAL ENGINEERS

AIGELTINGER, ARTHUR.....	(Mhtn) New York City
ARNSFIELD, JAMES JULIUS.....	(Mhtn) New York City
BARTELD, HENRY CHRISTOPHER.....	(Bklyn) New York City

BISHOP, CLARENCE MORTON.....	Salem, Ore.
CAUCHOIS, REGINALD WADSWORTH.....	(Mhtn) New York City
CHERRY, MODIE JOSEPH, JR.....	(Mhtn) New York City
CLUNE, MATTHEW THOMAS.....	Peekskill, N. Y.
DOTY, ARCHIBALD.....	Yonkers, N. Y.
FARRER, HENRY EDWIN.....	(Bklyn) New York City
FOWLER, BENJAMIN KIMBALL TRUE.....	Babylon, N. Y.
FRIEDLAND, ANATOL ABRAHAM.....	(Mhtn) New York City
FRIEDMAN, WILLIAM HENRY.....	(Mhtn) New York City
GOLDBAUM, LOUIS.....	(Bklyn) New York City
HALPIN, ZACH POWER.....	(Mhtn) New York City
HARD, STRAITON.....	Arverne, N. Y.
HEIDGERD, GUSTAV HERMAN.....	(Mhtn) New York City
HEIDTMANN, ALBERT WILLIAM.....	Mt. Vernon, N. Y.
HOWARD, HOMER EARL.....	(Mhtn) New York City
JENKINS, JOHN CAMERON.....	(Mhtn) New York City
KING, JAMES J.....	(Mhtn) New York City
LEVIN, HERTZ.....	(Mhtn) New York City
LICHTENBERG, J. CHESTER ALAN ARTHUR.....	(Mhtn) New York City
LYON, WILLIAM WARREN, JR.....	(Mhtn) New York City
MCCCLURE, WALTER CECIL.....	(Mhtn) New York City
MILLER, JOHN.....	(Mhtn) New York City
MOEGLING, BENNO A.....	(Q) New York City
MOORE, STEWART LA MONT, JR.....	(Mhtn) New York City
MORA, ERNESTO JOSÉ.....	(Br) New York City
MULLER, ANTOINE FREDERIC RICHARD.....	Liege, Belgium
O'CONOR, DANIEL JOSEPH.....	(Mhtn) New York City
PEARSE, CHARLES ALLEN.....	(Mhtn) New York City
QUEZADA, CECIL T.....	Costa Rica, Central America
ROSENBLUM, ABRAM.....	(Mhtn) New York City
SEELIG, ALFRED EPHRAIM.....	(Mhtn) New York City
SIMPSON, WILLIAM JACOB.....	(Mhtn) New York City
SINDEBAND, MAURICE L.....	(Mhtn) New York City
SUNDHEIMER, ARTHUR ISAAC.....	(Mhtn) New York City
SWAN, WILLIAM LINCOLN, JR.....	Oyster Bay, N. Y.
THORP, JOHN STANISLAUS.....	(Mhtn) New York City
TROMPEN, NICHOLAS J.....	Ramsey, N. J.
WALBRIDGE, DUDLEY HUNT.....	(Mhtn) New York City
WILLIS, JAMES.....	(R) New York City
WISE, WILLIAM WALLACE.....	(Mhtn) New York City

## MECHANICAL ENGINEERS

ARNSTEIN, LEONARD ALBERT.....	(Mhtn) New York City
BAILEY, RAYMOND DE WITT.....	Summit, N. J.
BATES, GUY.....	Parsippany, N. J.
CARBONE, MARIO GEROLAMO.....	(Mhtn) New York City
CARTER, DOUGLAS SKELTON.....	(Mhtn) New York City
CASSEBEER, EDWIN W.....	(Mhtn) New York City
FINCH, JAMES MYERS.....	New Rochelle, N. Y.
GERHARD, HANS WEICKIRCH.....	(Bklyn) New York City
HOFFMAN, GORDON WILLIAM.....	(Mhtn) New York City
HOUSE, ELLIOTT CAMPBELL.....	(Mhtn) New York City
JOLY, CHARLES LEVEQUE.....	Asbury Park, N. J.
KENNEDY, DANIEL JOSEPH ARTHUR.....	(Bklyn) New York City
KINCAID, MURLAND.....	(Mhtn) New York City
KIRK, WILLIAM PARKER.....	Creek Locks, N. Y.
MERRITT, JOHN ISRAEL.....	Whitestone, N. Y.
MILLETT, KENNETH BALLARD.....	(Mhtn) New York City



MONES, WILLIAM DOUGLAS.....	Mt. Vernon, N. Y.
MULLEN, CHARLES RAPHAEL.....	Shamokin, Pa.
PALMER, FRED LOUIS WILLIAM.....	(Mhtn) New York City
PRALL, JOHN GOLDSMITH.....	(Q) New York City
PURDY, ARTHUR LANE.....	Port Chester, N. Y.
SCHMINKE, EBERHARD A.....	(Mhtn) New York City
SCHOONMAKER, RALPH BAILEY.....	Plainfield, N. J.
SIGERSON, EDMUND BURKE VICTOR.....	(Mhtn) New York City
SMITH, HERMAN RAYMOND.....	(Mhtn) New York City
SPENCER, JAMES BEAUMONT.....	(Mhtn) New York City
ULMANN, AUGUST, JR.....	Yonkers, N. Y.
WARD, EVERETT, JR.....	(Mhtn) New York City
WOODWARD, ORATOR FRANCIS, JR.....	Le Roy, N. Y.

## METALLURGISTS

LAGE, FREDERICO.....	Rio-de-Janeiro, Brazil
LEE, HAMPTON.....	(Mhtn) New York City

## CHEMISTS

BOECK, PERCY ALBERT.....	St. Louis, Mo.
BOISSE, PIERRE SETH.....	(Mhtn) New York City
FRENCH, ROBERT MANSFIELD.....	New Rochelle, N. Y.
HAMMERSCHLAG, HENRY ADOLPH.....	Newark, N. J.
KELLER, WILLIAM B., JR.....	(Mhtn) New York City
KROPPF, ALFRED HEMMER.....	(Mhtn) New York City
KYTE, JOHN HERBERT.....	Fanwood, N. J.
LOCKWOOD, HAROLD REDINGTON.....	Bay Shore, N. Y.
WARTH, ALBIN HENRY.....	(R) New York City
WILLIAMS, RICHARD GRANT.....	Mt. Vernon, N. Y.
WYANT, ALECK DE L.....	(Mhtn) New York City

## FIRST YEAR CLASS

Mining Engineers.....	40
Civil ".....	34
Electrical ".....	43
Mechanical ".....	29
Metallurgists.....	2
Chemists.....	11
Total.....	159

## SPECIAL STUDENTS

(a) *Unclassified Candidates for a Degree*

BLICKENSERFER, CLARK.....	Denver, Colo.
BROWNE, ROBERT HOWARD.....	Aspen, Colo.
CLARK, FRANCIS MORTON.....	(Mhtn) New York City
Stevens Institute, Mech. E., 1902.	
ELDRIDGE, GUY SUNDERLIN.....	Salt Lake City, Utah
ERDAL, OSCAR WILSON.....	(Mhtn) New York City
FAIR, RICHARD MILLER.....	New Rochelle, N. Y.
HIGGINS, JAMES EDWARD.....	(Mhtn) New York City
JUDD, EDWARD KNIGHT.....	(Mhtn) New York City
KUNZ, GEORGE HANDFORTH.....	(Mhtn) New York City
LOVEJOY, FREDERICK WARREN, JR.....	(Bklyn) New York City
Harvard University, A.B., 1901; A.M., 1902.	
MCCASKELL, GEORGE WILLIAM.....	(Mhtn) New York City

McILVAINE, JOHN H.	Pittsburg, Pa.
MARTIN, FRANKLIN	West Orange, N. J.
MURPHY, JAMES LEO	(Mhtn) New York City
RIDDLE, GEORGE WILLIAM	Saranac Lake, N. Y.
RIGGS, FRANCIS BEHN	(Mhtn) New York City
Harvard University, A.B., 1903.	
ROSSBERG, FRED HERMAN	(Mhtn) New York City
SALINGER, HERBERT J.	(Mhtn) New York City
SCHAEFER, LUDWIG	Paterson, N. J.
SEYMOUR, HAROLD FREEMAN	Norwalk, Conn.
STARBUCK, WILLIAM LENT	(Mhtn) New York City
STILLWELL, HOWARD APPLETON	(Bklyn) New York City
WILLIS, HARRY THOMAS	Champaign, Ill.
Princeton University, B.S., 1901.	

(b) *Irregular Students*

ARNOLD, HARRY CUTTLER	Upper Montclair, N. J.
BARNES, ROLAND L.	Montclair, N. J.
BLAGDEN, WENDELL PHILLIPS	(Mhtn) New York City
Harvard University, A.B.	
CONDON, MARTIN JOSEPH, Jr.	Pelham Manor, N. Y.
DAVIS, REUBEN WALDO	Darwin, Tex.
GOODLATTE, WILLIAM BURGESS RICHARDSON	Passaic, N. J.
HEIN, HENRY EMMO	(Mhtn) New York City
College of the City of New York, A.B., 1902.	
IYENGAR, SRIRANGAM D. S.	Bangalore, Mysore, India
Madras University, A.B., 1897.	
JOSEPHI, ROBERT	(Mhtn) New York City
KANN, ALBERT	Vienna, Austria
Brasel University, Ph.D., 1898.	
LANIER, LA FAYETTE, Jr.	West Point, Ga.
NUTTING, RAYMOND WALSH	(Bklyn) New York City
SAURI, RAFAEL EDWARD	Ponce, Puerto Rico
SIMON, HENRY	Didsbury, England
Cambridge University, A.B., 1902.	
TAYLOR, JACKSON	Newburgh, N. Y.
WHEELER, BURR	Grand Rapids, Mich.
Michigan Agricultural College, B.S., 1903.	

Special Students..... 39

## CANDIDATES FOR THE DEGREE OF MASTER OF ARTS

DEARBORN, JAMES MARSHALL	Middletown, Conn.
Wesleyan University, Ph.B., 1902.	
<i>Electrical Engineering, Mathematics.</i>	
PRICE, MELVIN	Lincoln, Neb.
Purdue University, B.S., 1897; E.E., 1902.	
<i>Mechanical Engineering, Metallurgy, Mechanics.</i>	
WANG, CHUNG-YU	Tientsin, China.
Tientsin University (equiv. B.S.), 1899.	
<i>Mining, Geology.</i>	

For the Degree of Master of Arts..... 3

## CANDIDATES FOR THE DEGREE OF DOCTOR OF PHILOSOPHY

FRANCO, ERNESTO.....Ecuador, So. America  
 Lehigh University, C.E., 1901, M.S., 1902.  
*Sanitary Engineering, Bacteriology.*

FULLER, ROBERT WARREN.....(Mhtn) New York City  
 Harvard University, A.B., 1897; A.M., 1899.  
*Electrical Engineering.*

WATERHOUSE, GEORGE BOOKER.....Nottingham, England  
 University College, Sheffield (equiv. A.M.), 1901.  
*Metallurgy, Geology, Chemistry.*

For the Degree of Doctor of Philosophy..... 3

## SPECIALS (WHO ALREADY HOLD THE DEGREE OF PH.D.)

ARNOLD, JAMES LORING.....(Mhtn) New York City  
 Columbia University, A.B., 1891.  
 University of Leipzig, Ph.D., 1897.  
*Electrical Engineering.*

CAMPBELL, WILLIAM.....Kempsey, England.  
 Durham College of Science, B.S., 1898.  
 Columbia University, Ph.D., 1903.  
*Metallurgy, Geology.*

Special..... 2

## SUMMARY

## UNDERGRADUATE STUDENTS

	First Year	Second Year	Third Year	Fourth Year	Totals
SCHOOL OF MINES:					
Mining Engineering.....	40	71	62	26	199
Metallurgy.....	2	4	2	2	10
SCHOOL OF CHEMISTRY.....	11	13	3	4	32
SCHOOL OF ENGINEERING:					
Civil Engineering.....	34	30	22	20	106
Electrical Engineering.....	43	48	28	24	144
Mechanical Engineering.....	29	38	16	20	103
Sanitary Engineering.....	—	1	—	—	1
	159	205	133	96	593

Special Students..... 39

Graduate Students:

For Degree of Master of Arts..... 3

“ “ Doctor of Philosophy..... 3

Special..... 2 8

STUDENTS PRIMARILY REGISTERED UNDER THIS FACULTY..... 640

STUDENTS FROM OTHER FACULTIES OF THE UNIVERSITY.....

From the College..... 10

From the School of Law..... 1

TOTAL..... 651

## SCHOOL OF ARCHITECTURE

### Officers

NICHOLAS MURRAY BUTLER, Ph.D., LL.D., *President of the University*  
ALFRED D. F. HAMLIN, A.M. . . . . *Adjunct Professor of Architecture*  
FRANK DEMPSTER SHERMAN, Ph.B. . . *Adjunct Professor of Architecture*  
MAXIMILIAN K. KRESS, A.M. . . . . *Curator and Lecturer in Architecture*  
GRENVILLE T. SNELLING, S.B. . . *Instructor in Architectural Engineering*  
CHARLES A. HARRIMAN . . . . . *Instructor in Architectural Drawing*  
CHARLES P. WARREN, A.M. . . . . *Tutor in Architectural Construction*  
ALFRED H. GUMAER, B.S. . . . . *Instructor in Architectural Design*  
WALTER A. DELANO, A.B. . . . . *Tutor in Architectural Design*  
EDWARD R. SMITH, A.B. . . . *Curator of the Avery Architectural Library*

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WILLIAM R. WARE, LL.D. . . . . *Emeritus Professor of Architecture*

### GENERAL STATEMENT

The School of Architecture, formerly under the Faculty of Applied Science, has now been set apart as an independent school, under the direct administrative control of the President of the University, who represents it in the University Council. The By-Laws of the Faculty of Applied Science, and the regulations for matriculation, enrolment, and registration of that Faculty, will, however, still remain in force, as well as the regulations for higher degrees, as set forth in the statement of that Faculty (pp. 288-296).

The School of Architecture offers a four-years' course, leading to the degree of Bachelor of Science, and designed to qualify its graduates for the active practice of the profession of architecture. The instruction given comprises the history of architecture and decorative design; the graphics of design, including the freehand and architectural drawing and the descriptive geometry required by the trained practitioner; exercises in original architectural and decorative design, in each of the four years of the course; and architectural engineering and practice, including the mathematics and engineering of architecture, the study of building materials, practical construction, specifications, and office practice. These courses are supplemented by exercises in reading French and German text-books of architectural history, and by written exercises in historical research and in the analysis and criticism of



buildings. In the fourth year those who so desire may elect a specialized course in Advanced Architectural Engineering and Practice in place of the usual course in Advanced Design. This is arranged by conference with the Professor of Architecture and the Professor of Civil Engineering of the Faculty of Applied Science. Opportunities for advanced study both in design and in construction are afforded to graduates and qualified special students in the School itself, and for study abroad by the Columbia, McKim, and Perkins Travelling Fellowships, which are open to graduates only.

#### Admission

Candidates for admission to the first year must be at least eighteen years of age. They are required to pass the examinations in Mathematics, Physics, Chemistry, Drawing, History, English, German, and either French, Spanish, or Latin, prescribed for admission to the Schools of Applied Science (see p. 290). These examinations are held in June and in September. The Regents' Academic Diploma and the certificates of universities and colleges in good standing are accepted in lieu of examination for the subjects which they specifically cover.

Women are not admitted.

#### Special Students and Auditors

Any applicant of mature age who is qualified to do so may pursue any of the studies taught in the School as a special student. Draughtsmen in offices who have had three or four years' practical experience are generally qualified to enter the courses in history and design. They must give evidence of proficiency in architectural drawing, including the five orders, and if deficient, will have to attend the instruction given in this subject before joining the classes in design. They are received for the whole year or for periods of two months at a time. Only those who have given themselves to mathematical and engineering studies will be competent to enter the courses in scientific construction.

All such students may become candidates for a degree by passing the required examinations, and graduate students may prepare themselves to take a higher degree by entering one of the university courses as special students, and may do the work partly in one year and partly in another as may be convenient.

Male students of painting, sculpture, architecture, and decorative design, from any incorporated school of art in New York City, may be admitted as auditors to the courses in Elements of Architecture, Projections and Shades and Shadows, Perspective, History of Architecture and History of Ornament (Courses 1, 2, 3, 4, 5, 6, 8, 10, 11, and 12) (see list upon pages 69-70), upon payment of a fee of \$15 per course. They may take the courses in Drawing and Design upon payment of the draughting room fee of \$25. Auditors are not entitled to examination nor to candidacy for degrees.

Undergraduates in Columbia College may elect certain studies in the first and second year courses of this school; thereby shortening the duration of their professional studies from four years to three. Candidates for the degree of Master of Arts may select approved courses in this school either as major or minor subjects.

### Degrees

The four-years' course in architecture leads to the degree of Bachelor of Science. Men who already hold a Bachelor's degree from a recognized institution may be candidates for the degrees of Master of Arts and Doctor of Philosophy.

Degrees are not conferred upon special students.

### Equipment

The equipment of the School consists of about 15,000 photographs and 900 books, the gift of Mr. F. A. Schermerhorn; a classified library of prints and plates; the Avery Architectural Library of over 17,500 volumes; a collection of manuscript drawings from the École des Beaux-Arts; about 10,000 lantern slides of architectural subjects; a collection of casts of architectural details from ancient and modern Roman buildings, the gift of Mr. Charles F. KcKim; and an architectural museum containing a collection of models, building stones, tools, and materials. The Avery Library and, under certain restrictions, the collections of the School are accessible every evening. The Willard collection of architectural casts at the Metropolitan Museum is open to students every day and two evenings in the week.

For further particulars see the *Announcement of Courses in the Fine Arts* and the *Bulletin of General Information* of the Schools of Applied Science.

## COURSE IN ARCHITECTURE

FIRST CLASS	SECOND CLASS	THIRD CLASS	FOURTH CLASS
Architecture 1	Architecture 3	Architecture 3	Architecture 12
Architecture 4	Architecture 6	Architecture 6	Architecture 8.4
Architecture 7.1	Architecture 7.2	Architecture 8.2	Architecture 9.4
Architecture 10 (1st term)	Architecture 8.1	Architecture 8.3	Architecture 21.4
Architecture 10 (2d term)	Architecture 9.2	Architecture 9.3	Architecture 23.4
Architecture 14.1	Architecture 11	Architecture 13.1	<sup>1</sup> Architecture 13.3
Architecture 14.2	Architecture 12	Architecture 13.2	<sup>1</sup> Architecture 14.6
Architecture 20	Architecture 14.3	Architecture 14.5	Thesis
Architecture 21.1	Architecture 14.4	Architecture 21.3	
Architecture 22	Architecture 21.2	Architecture 23.3	
Architecture 23.1	Architecture 23.2		

<sup>1</sup> Engineering and Practice. See pp. 70-71

## REGISTER OF STUDENTS

### School of Architecture

#### FOURTH YEAR CLASS

BURTIS, WILLIAM EDGAR.....	(Q) New York City
CAMPBELL, SHIRAS.....	Elizabeth, N. J.
Yale University, A.B., 1900.	
CURLETT, ALECK EDWARD.....	San Francisco, Cal.
CURTIS, NATHANIEL CORTLANDT.....	Southport, N. C.
University of North Carolina, Ph.B., 1900.	
DEAN, EDWARD CLARENCE.....	Washington, D. C.
Yale University, Ph.B., 1900.	
LOBO, ARTHUR.....	(Mhtn) New York City
PERCY, HAROLD FAIRFAX.....	Chatham, N. Y.
SEARS, WILLIAM HATFIELD.....	Fabius, N. Y.

Fourth Year Class..... 8

#### THIRD YEAR CLASS

BOTTOMLEY, WILLIAM LAWRENCE.....	(Mhtn) New York City
BUTTERFIELD, WILLIAM HAROLD.....	East Orange, N. J.
CRANE, THEODORE.....	(Mhtn) New York City
DANA, RICHARD HENRY, JR.....	Cambridge, Mass.
Harvard University, A.B., 1901.	
ESSELBORN, CARL ADOLPH.....	(Br) New York City
FRANCIS, WILLIAM CARSON.....	Buffalo, N. Y.
JONES, THEODORE MAXWELL.....	(Mhtn) New York City
MCDONALD, ANGUS SNEAD.....	Louisville, Ky.
MEEKS, EVERETT VICTOR.....	(Mhtn) New York City
Yale University, A.B., 1901.	
PECK, HOWARD MORRELL.....	(Mhtn) New York City
RANDOLPH, HOWARD STELLE FITZ.....	(Mhtn) New York City
SCOTT, FITZHUGH.....	Atlanta, Ga.
TURNBULL, BAYARD.....	Baltimore, Md.
Johns Hopkins University, A.B., 1900.	
VIGOUROUX, GUSTAVE GEORGE.....	(Mhtn) New York City

Third Year Class..... 14

#### SECOND YEAR CLASS

BROWN, BEDFORD.....	Washington, D. C.
COLIE, DAYTON.....	East Orange, N. J.
FELDMANN, LEO MAURICE.....	Cincinnati, O.
HALL, EDWARD CLINTON.....	Netherwood, N. J.
HAXBY, ROBERT VAN LOAN.....	(Mhtn) New York City
KEDIAN, WALTER MARTIN.....	(Mhtn) New York City
KLABER, EUGENE HENRY.....	(Mhtn) New York City



KLENKE, JOHN HENRY, JR.	(Mhtn) New York City
LOVELESS, ARTHUR LAMONT	Big Rapids, Mich.
LUTHLEN, WILLIAM	(Bklyn) New York City
McLAUGHLIN, THOMAS DURELLE	Lima, O.
MARCUS, BERTRAM NATHAN	(Mhtn) New York City
MILLER, THOMAS, JR.	(Mhtn) New York City
OBERLANDER, HENRY CHARLES	(Mhtn) New York City
PEABODY, CHARLES SAMUEL	(Bklyn) New York City
Harvard University, A.B., 1902.	
SEE, EDMUND THORP	(Mhtn) New York City
SEYMOUR, ALEXANDER DUNCAN, JR.	(Bklyn) New York City
STINSON, JOSEPH WHITTLA	(Mhtn) New York City
TEMPLE, HARRY KLINE	North Adams, Mass.
WALLS, FRANKLIN JASPER	Albany, N. Y.
WATERMAN, FRANCIS ELY	(Mhtn) New York City
Trinity College, A.B., 1901.	

Second Year Class..... 21

#### FIRST YEAR CLASS

ALBERTSON, WILBUR NICHOLAS	East Orange, N. J.
ANDREWS, THEODORE	Albany, N. Y.
Yale University, A.B., 1903.	
BERNSTEIN, CHARLES DAVID	(Mhtn) New York City
BISSELL, CYRUS YALE	Jersey City, N. J.
BROWN, FLOYD DE LATOUR	(Mhtn) New York City
BULLARD, ROGER H.	(Q) New York City
HUGHES, HARRY DRUM	Cleveland, O.
JOHNSTON, EDWIN MATSON	Matteawan, N. Y.
KAHLE, HERMAN	(R) New York City
KAHN, ELY JACQUES	(Mhtn) New York City
Columbia University, A.B., 1903.	
MAYER, MACDONALD	(Bklyn) New York City
PALLISER, GEORGE ARTHUR	Dobbs Ferry, N. Y.
ROBINSON, BEVERLEY	(Br) New York City
SMALLEY, HAROLD LEIGH	Plainfield, N. J.
STORK, EDWARD JOHN	Jersey City, N. J.
SWEETZ, LARREMORE VAN VELSON	(Mhtn) New York City
WADELTON, THOMAS DORRINGTON	(Br) New York City
WILLIAMS, REED	(Mhtn) New York City

First Year Class..... 18

#### SPECIAL STUDENTS

ARMSTRONG, ALLAN POUNDEN	Ottawa, Canada
BARNES, RODERIC BARBORN	(Mhtn) New York City
Princeton University, A.B., 1903.	
DARST, OTTO CUSTER	Columbus, O.
FARLEY, FRANK CHENEY	So. Manchester, Conn.
Harvard University, A.B., 1902.	
FENTON, WARDEN HANOVER	Philadelphia, Pa.
GILMOUR, ROBERT THORN	Detroit, Mich.
HAPP, FRANK RUSSELL	Atlanta, Ga.
University of Georgia, B.S., 1901.	
HOOPER, PARKER MORSE	Fall River, Mass.
Harvard University, A.B., 1902.	
HUNT, WILLIAM EBENEZER	Waterbury, Conn.
JACOB, DONALD ROBERTSON	Louisville, Ky.

LEWIS, CHARLES CAYTON.....	Toledo, O.
MÜLLER, JOHN.....	(Bklyn) New York City
PEABODY, JULIAN LIVINGSTON.....	(Mhtn) New York City
Harvard University, A.B., 1903.	
POWELL, WILLIAM ROBERT.....	Radnor, O.
PUTNAM, JOHN LOUIS.....	Oak Hill, Fla.
SAWYER, JOHN MILLS.....	Philadelphia, Pa.
Harvard University, A.B.	
STEFFENS, JOHN FREDERICK.....	Cleveland, O.
TORRE, PETER, Jr.....	New Orleans, La.
Tulane University, B.E., 1903.	
Special Students.....	18

## CANDIDATES FOR THE DEGREE OF MASTER OF ARTS

BRUSH, EDWARD HALE.....	(Bklyn) New York City
Columbia University, A.B., 1887.	
<i>Architecture, Greek Archaeology.</i>	
LUDLOW, THOMAS WILLIAM.....	(Mhtn) New York City
Columbia University, B.S., 1903.	
<i>Architecture, English.</i>	
NEUS, ENGELBERT.....	(Mhtn) New York City
College of the City of New York, B.S., 1893.	
<i>Architecture, Greek Archaeology.</i>	
STURDEVANT, THOMAS KIRKBRIDE.....	Wilkesbarre, Pa.
Princeton University, B.S., 1901.	
<i>Architecture, English.</i>	
For the Degree of Master of Arts.....	4

## SUMMARY

Fourth Year Class.....	8
Third Year Class.....	14
Second Year Class.....	21
First Year Class.....	18
Special Students.....	18
Graduate Students.....	4
Total.....	83

## FACULTY OF POLITICAL SCIENCE

ESTABLISHED 1880

### Officers of the Faculty

JOHN W. BURGESS, Ph.D., LL.D.....*Dean (term expires 1905)  
and ex-officio Member of the University Council*  
MUNROE SMITH, J.U.D.....*Secretary and Elected Delegate to the  
University Council*

### The Faculty

NICHOLAS MURRAY BUTLER, Ph.D., LL.D., *President*  
JOHN W. BURGESS, Ph.D., LL.D....*Professor of Political Science and  
Constitutional Law*  
MUNROE SMITH, J.U.D....*Professor of Roman Law and Comparative  
Jurisprudence*  
FRANK J. GOODNOW, LL.D....*Eaton Professor of Administrative Law  
and Municipal Science*  
EDWIN R. A. SELIGMAN, LL.B., Ph.D...*Professor of Political Economy  
and Finance*  
HERBERT L. OSGOOD, Ph.D.....*Professor of History*  
WILLIAM A. DUNNING, Ph.D.....*Professor of History*  
JOHN BASSETT MOORE, LL.D..*Hamilton Fish Professor of International  
Law and Diplomacy*  
FRANKLIN H. GIDDINGS, Ph.D., LL.D.....*Professor of Sociology*  
JOHN B. CLARK, Ph.D., LL.D.....*Professor of Political Economy*  
JAMES HARVEY ROBINSON, Ph.D.....*Professor of History*  
WILLIAM M. SLOANE, Ph.D., L.H.D., LL.D.....*Seth Low Professor of  
History*  
HENRY R. SEAGER, Ph.D.....*Adjunct Professor of Political Economy*  
HENRY L. MOORE, Ph.D.....*Adjunct Professor of Political Economy*

### Other Officers

WILLIAM R. SHEPHERD, Ph.D.....*Instructor in History*  
JAMES T. SHOTWELL, Ph.D.....*Instructor in History*  
GEORGE W. BOTSFORD, Ph.D.....*Instructor in History*  
ALVIN S. JOHNSON, Ph.D.....*Tutor in Economics*  
GEORGE JAMES BAYLES, Ph.D.....*Lecturer in Ecclesiology*

## GENERAL STATEMENT

The Faculty of Political Science has charge of the university courses of instruction and research in political and social science, including history, economics, public law, and comparative jurisprudence.

The School of Political Science was opened on Monday, the fourth day of October, 1880.

It is the purpose of the School to give a complete general view of all the subjects of public polity, both internal and external, from the threefold point of view of history, law, and philosophy. The prime aim is, therefore, the development of all the branches of the political and social sciences. The secondary and practical objects are:

(a) To fit young men for the public service.

(b) To give an adequate economic and legal training to those who intend to make journalism their profession.

(c) To supplement, by courses in public law and comparative jurisprudence, the instruction in private municipal law offered by the Faculty of Law.

(d) To educate teachers of history, economics, social science, public law, and jurisprudence.

Young men who wish to obtain positions in the United States civil service—especially in those positions for which special examinations are held—will find it advantageous to follow many of the courses under the Faculty of Political Science, especially the courses on political history, diplomatic history, and international law, government (including the governmental organization of the territories and dependencies of the United States), statistics, finance, and administration. Candidates for appointment in the administrative service of our dependencies may obtain adequate preparation by adding to the general courses on public law and on political economy and finance the special courses now offered in the School of Political Science on colonial history and administration, colonial economics, and Spanish civil law; and the courses on the Spanish language and literature offered in the College and the School of Philosophy.

The work in economics and sociology falls under three heads, viz.: the university courses of instruction in the various departments of economics and social science, the work in the statistical laboratory, and the "field-work," or practical work in connection with the Charity Organization Society, the Brooklyn Bureau of Charities, the State Charities Aid Association, the University Settlement Society of New York City, and the East Side House. These are fully explained in the detailed *Announcement of the Courses in History, Economics and Public Law*.

## ADMISSION AND ATTENDANCE

Every student is required to file a list of his studies for the academic year at the time he registers, or within one week thereafter, at the



office of the Registrar. If he subsequently wishes to make any change in his studies he must file written notice of his wish at the Dean's office, and must obtain the assent of the Dean.

Immediate written notice must be given to the Dean of any change of address.

Admission to the School of Political Science does not imply admission to candidacy for a degree. The conditions of candidacy for the several degrees are given below.

Women who hold a baccalaureate degree are admitted to the School of Political Science as students in history and economics and may become candidates for the higher degrees.

### ADMISSION TO OTHER COURSES

Any duly matriculated university student is at liberty to combine, without any additional fee, courses of study and investigation under this Faculty with courses offered by other Faculties of the University, and with courses offered in the College.

### FEES

(See page 22)

### CANDIDATES FOR A DEGREE

Students are received as candidates for the degree of Master of Arts, Master of Laws, or Doctor of Philosophy.

If the applicant is a candidate for a degree, he must file a certificate furnishing evidence of his completion of the junior year, or, if he holds a degree from any institution, he must file diplomas or certificates sufficient to furnish evidence of such degree or degrees. Blanks for this purpose may be secured at the office of the Registrar. Certificates of graduation or dismissal from institutions of learning in foreign countries are also accepted. The certificates should be accompanied by catalogues or calendars of the colleges or other institutions of advanced grade at which the student has previously studied, which must be marked so as to show clearly his course of study there. This condition may be dispensed with in the case of those colleges and institutions whose bachelor's degree is recognized by the University Council as a basis for the higher degrees.

Students may present themselves for examination for the degree of Ph.D. at any time during the year, whenever the requirements have been complied with. For these requirements see pages 210-216.

### COURSES OF INSTRUCTION

For the courses offered in 1903-04 (and for information as to which of these courses are open to Seniors in the College, and which to women) see statement under groups of subjects, as follows:

**History and Political Philosophy**, page 120.

**Public Law and Comparative Jurisprudence**, page 126.

**Economics and Social Science**, page 95.

For more detailed accounts of the courses and for the tender of 1904-05, application should be made for the *Announcement of the Courses in History, Economics and Public Law*.

### Seminars

Outside of the regular instruction in the various subjects by lecture, it is the practice to furnish the students of the School an opportunity for special investigation of historical, legal, economic, and social questions under the direction of the professors. This is done by means of original papers prepared by the students. The papers are read before the professor and the students, and are then criticised and discussed. There will be at least one seminar in each subject. The number of meetings and the topics to be discussed are determined each year. Attendance at the seminar in the major subject is necessary on the part of candidates for the degree of Master of Arts or Doctor of Philosophy.

## FACULTY OF PHILOSOPHY

ESTABLISHED 1890

### Officers of the Faculty

EDWARD DELAVAN PERRY, Ph.D. . . . . *Dean (term expires 1905) and  
ex-officio Member of the University Council*  
GEORGE RICE CARPENTER, A.B. . . . . *Secretary*  
WILLIAM HENRY CARPENTER, Ph.D. . . . . *Elected Delegate to the University  
Council*

### The Faculty

NICHOLAS MURRAY BUTLER, Ph.D., LL.D. . . . . *President*  
RICHARD JAMES HORATIO GOTTHEIL, Ph.D. . . . . *Professor of Rabbinical  
Literature and the Semitic Languages*  
HARRY THURSTON PECK, Ph.D., L.H.D. . . . . *Professor of the Latin  
Language and Literature*  
WILLIAM HENRY CARPENTER, Ph.D. . . . . *Villard Professor of Germanic  
Philology*  
JAMES McKEEN CATTELL, Ph.D. . . . . *Professor of Psychology*  
EDWARD DELAVAN PERRY, Ph.D. . . . . *Jay Professor of the Greek  
Language and Literature*  
ABRAHAM VALENTINE WILLIAMS JACKSON, Ph.D., L.H.D. . . . . *Professor  
of Indo-Iranian Languages*  
ADOLPHE COHN, LL.B., A.M. . . . . *Professor of the Romance Languages  
and Literatures*  
GEORGE EDWARD WOODBERRY, A.B. . . . . *Professor of Comparative  
Literature*  
BRANDER MATTHEWS, Litt.D., D.C.L. . . . . *Professor of Dramatic  
Literature*  
HENRY ALFRED TODD, Ph.D. . . . . *Professor of Romance Philology*  
GEORGE RICE CARPENTER, A.B. . . . . *Professor of Rhetoric and English  
Composition*  
JAMES RIGNALL WHEELER, Ph.D. . . . . *Professor of Greek*  
JAMES CHIDESTER EGBERT, Jr., Ph.D. . . . . *Professor of Roman Archaeology  
and Epigraphy*  
CALVIN THOMAS, A.M. . . . . *Gebhard Professor of the Germanic Languages  
and Literatures*  
JAMES EARL RUSSELL, Ph.D. . . . . *Professor of Education*  
FRANK MORTON MCMURRY, Ph.D. . . . . *Professor of the Theory and  
Practice of Teaching*  
FRANKLIN T. BAKER, A.M. . . . . *Professor of English*

PAUL MONROE, Ph.D.....	<i>Professor of the History of Education</i>
CARLO LEONARDO SPERANZA, LL.B., A.M.....	<i>Professor of Italian</i>
FRANZ BOAS, Ph.D.....	<i>Professor of Anthropology</i>
SAMUEL TRAIN DUTTON, A.M.....	<i>Professor of School Administration</i>
WILLIAM PETERFIELD TRENT, M.A., LL.D.	<i>Professor of English Literature</i>
MORTIMER LAMSON EARLE, Ph.D.....	<i>Professor of Classical Philology</i>
NELSON GLENN MCCREA, Ph.D.....	<i>Professor of Latin</i>
GONZALEZ LODGE, Ph.D., LL.D.....	<i>Professor of Latin and Greek</i>
CLARENCE HOFFMAN YOUNG, Ph.D.....	<i>Adjunct Professor of Greek</i>
LIVINGSTON FARRAND, A.M., M.D.....	<i>Professor of Anthropology</i>
EDWARD LEE THORNDIKE, Ph.D.....	<i>Adjunct Professor of Genetic Psychology</i>
JOHN DYNELEY PRINCE, Ph.D.....	<i>Professor of the Semitic Languages</i>
FREDERICK J. E. WOODBRIDGE, A.M., LL.D.	<i>Professor of Philosophy</i>
FRIEDRICH HIRTH, Ph.D.....	<i>Dean Lung Professor of Chinese</i>
JULIUS SACHS, Ph.D.....	<i>Professor of Secondary Education</i>
FELIX ADLER, Ph.D.....	<i>Professor of Social and Political Ethics</i>
CHARLES A. STRONG, A.B.....	<i>Professor of Psychology</i>
FREDERICK W. SAVILLE.....	<i>Professor of American Archæology</i>
CHARLES KNAPP, Ph.D.....	<i>Adjunct Professor of Classical Philology</i>

## GENERAL STATEMENT

The Faculty of Philosophy has charge of the university courses of instruction and research in philosophy, psychology, education, anthropology, philology, and letters. Any duly matriculated university student is at liberty to combine courses of study and investigation under this Faculty with courses offered by the Faculties of Law, Medicine, Political Science, Pure Science, and Applied Science.

Students are received either as candidates for the degrees of master of arts and doctor of philosophy, or to pursue special or partial courses. Some courses of lectures are open to the public, men and women alike, on payment of an auditor's fee. No auditor will be admitted to any course without the consent of the instructor, previously obtained. Auditors do not have, and cannot receive, any university recognition whatever.

Students enrolled either in the General, the Union, or the Jewish Theological Seminary, in the city of New York, or in the Drew Theological Seminary at Madison, N. J., or in St. Joseph's Theological Seminary at Yonkers, N. Y., who may be designated for the privilege by the authorities of those institutions, and accepted by the President of Columbia University, are admitted to the courses offered by the Faculty of Philosophy free of any charge for tuition.

Students enrolled in the Art Schools of the Metropolitan Museum of Art, who may be designated for the privilege by the authorities of those schools, and accepted by the President of Columbia University, are permitted to attend the courses of lectures on archæology and æsthetics free of any charge for tuition.



Duly qualified students of Teachers College are permitted to enter the courses offered by the Faculty of Philosophy, either as candidates for degrees or as special students.

All of these institutions offer reciprocal privileges to students of Columbia University.

### ADMISSION AND ATTENDANCE

Candidates for the degrees of master of arts and doctor of philosophy must hold a bachelor's degree from some college in good standing, or present satisfactory evidence of having completed an equivalent course of study at a foreign institution, and must remain in residence for not less than one and two years, respectively. They are required to pursue courses of study and research in one major and two minor subjects, the number of hours of attendance per week being adjusted to the needs and demands of the individual student. University residence of not less than three years is usually necessary in order to obtain the degree of doctor of philosophy.

In the Faculty of Philosophy admission as a regular student or as a candidate for the degree of master of arts does not admit to candidacy for the degree of doctor of philosophy. Only those students are admitted to candidacy for the degree of doctor of philosophy who :

1. Are recommended for such candidacy by the heads of the departments in which their major and minor subjects of study lie;
2. Are certified as to their ability to read French and German by the heads of those departments;
3. Are certified as to their ability to read Latin by the head of that department; provided that students whose major subject is psychology, anthropology, education, or music shall not be required to meet this test when it is certified by the professor in charge of their major subject that an ability to read Latin is not necessary for the proper prosecution of their researches.

When a student is admitted to candidacy for the degree of doctor of philosophy, he may be credited with his past period of university residence, at Columbia, or elsewhere, or with so much thereof as may be determined by the Dean and the professor in charge of the candidate's major subject.

Students who are not candidates for a degree are admitted to any courses which they are found competent to undertake. Such students must, however, possess the qualifications for admission named above.

There are no examinations for admission, either as candidates for a degree or as special students. Students are admitted at any time during the year, and may present themselves for examination for a degree whenever the requirements as to residence and an essay or dissertation have been complied with.

For fees see page 22.

For a detailed statement of the regulations governing the degree of A.M. and Ph.D. see pages 210-216.

## COURSES OF STUDY AND RESEARCH

For the courses offered for 1903-04, see departmental statements as follows:

**Anthropology**, page 67.

**Philosophy and Psychology**, page 166.

**Greek (including Archæology and Epigraphy)**, page 116.

**Latin (including Epigraphy and Roman Archæology)**, page 123.

**English**, page 106.

**Comparative Literature**, page 92.

**Education**, page 98.

**Germanic Languages**, page 111.

**Romance Languages:**

**French**, page 182.

**Italian**, page 183.

**Spanish**, page 184.

**Romance Philology**, page 184.

**Oriental Languages:**

**Semitic**, page 158.

**Indo-Iranian**, page 156.

**Chinese**, page 155.

**Science of Language**, page 158.

*Courses at the Union Theological Seminary*

**New Testament Greek**, page 118.

**Ethics**, page 168.

**Philosophy of Religion**, page 168.

For the courses to be offered for 1904-05, application should be made for the *Announcement of the Schools of Philosophy, Political Science, and Pure Science*, and for the divisional *Announcements of Classical Philology, Modern Languages and Literatures, Oriental Languages, Philosophy, Psychology, and Anthropology*, and of Teachers College, which will be published in April.

## FACULTY OF PURE SCIENCE

ESTABLISHED 1892

### Officers of the Faculty

ROBERT S. WOODWARD, C.E., Ph.D.....*Dean (term expires 1905)*  
*and ex-officio Member of the University Council*  
 WILLIAM HALLOCK, Ph.D.....*Secretary*  
 JAMES F. KEMP, A.B., E.M.....*Elected Delegate to the University*  
*Council*

### The Faculty

NICHOLAS MURRAY BUTLER, Ph.D., LL.D., *President*

J. HOWARD VAN AMRINGE, Ph.D., L.H.D., LL.D.....*Professor of*  
*Mathematics*  
 CHARLES F. CHANDLER, M.D., Ph.D., LL.D., Sc.D.....*Professor of*  
*Chemistry*  
 JOHN K. REES, E.M., Ph.D...*Professor of Astronomy, and Director of*  
*the Observatory*  
 JOHN G. CURTIS, M.D.....*Professor of Physiology*  
 ALFRED J. MOSES, E.M., Ph.D.....*Professor of Mineralogy*  
 GEORGE S. HUNTINGTON, M.D.....*Professor of Anatomy*  
 HENRY FAIRFIELD OSBORN, Sc.D.....*Da Costa Professor of Zoölogy*  
 EDMUND B. WILSON, Ph.D., LL.D.....*Professor of Zoölogy*  
 JAMES F. KEMP, A.B., E.M.....*Professor of Geology*  
 WILLIAM HALLOCK, Ph.D.....*Professor of Physics*  
 MICHAEL I. PUPIN, Ph.D.....*Professor of Electro-Mechanics*  
 T. MITCHELL PRUDDEN, M.D., LL.D.....*Professor of Pathology*  
 ROBERT S. WOODWARD, C.E., Ph.D.....*Professor of Mechanics and*  
*Mathematical Physics*  
 THOMAS SCOTT FISKE, Ph.D.....*Professor of Mathematics*  
 HAROLD JACOBY, Ph.D.....*Adjunct Professor of Astronomy*  
 FRANK N. COLE, Ph.D.....*Professor of Mathematics*  
 FREDERIC S. LEE, Ph.D.....*Adjunct Professor of Physiology*  
 BASHFORD DEAN, Ph.D.....*Adjunct Professor of Zoölogy*  
 LUCIEN MARCUS UNDERWOOD, Ph.D.....*Professor of Botany*  
 JAMES MACLAY, C.E., Ph.D.....*Adjunct Professor of Mathematics*  
 EDMUND HOWD MILLER, Ph.D.....*Adjunct Professor of Analytical*  
*Chemistry and Assaying*

MARSTON TAYLOR BOGERT, A.B., Ph.B.	<i>Adjunct Professor of Organic Chemistry</i>
J. LIVINGSTON RUTGERS MORGAN, Ph.D.	<i>Adjunct Professor of Physical Chemistry</i>
HENRY E. CRAMPTON, Ph.D.	<i>Adjunct Professor of Zoölogy</i>
WILLIAM J. GIES, M.S., Ph.D.	<i>Adjunct Professor of Physiological Chemistry</i>
AMADEUS W. GRABAU, S.D.	<i>Adjunct Professor of Palæontology and Stratigraphical Geology</i>
JOHN FRANCIS WOODHULL, Ph.D.	<i>Professor of Physical Science in Teachers College</i>
RICHARD ELWOOD DODGE, A.M.	<i>Professor of Geography in Teachers College</i>
FRANCIS ERNEST LLOYD, A.M.	<i>Professor of Biology in Teachers College</i>
DAVID EUGENE SMITH, Ph.D.	<i>Professor of Mathematics in Teachers College</i>
ERNEST FOX NICHOLS, D.Sc.	<i>Professor of Experimental Physics</i>

### GENERAL STATEMENT

The Faculty of Pure Science has charge of the university courses of instruction and research in all branches of pure science, and especially the supervision of candidates for the degrees of Master of Arts and Doctor of Philosophy in pure science. Students under other University Faculties are also at liberty to pursue courses of study and investigation under this Faculty.

Candidates for the higher degrees taking major subjects in pure science will be regarded as under the special jurisdiction of this Faculty.

In the Faculty are represented all the departments of the University which give instruction in pure science.

Graduate students, candidates for the degree of Master of Arts or Doctor of Philosophy, are subject:

1. To the general regulations of the University Council. (See pages 210-216.)
2. To the special regulations of this Faculty.

### Special Regulations of the Faculty of Pure Science

The degree of Doctor of Philosophy is awarded on the basis of a thorough training in the methods of advanced work and investigation in some branch of science. The following statements are offered for the guidance of students. In the case of students of special ability or exceptional previous training, the Faculty may modify its usual regulations.

The student is expected to gain a sound general knowledge of the two minor subjects of his choice. In the major subjects a much more thorough and special knowledge is required, particular importance



being attached to training in research. In order to avoid undue specialization, no two subjects may be chosen from the same department without the consent of the Faculty.

One year's study in residence in the University is required for the degree of Master of Arts, and three years' study for the degree of Doctor of Philosophy, at least one year of which shall be in residence. Candidates for either of these degrees are expected to devote at least one half their time throughout their course of study to the major subject. In the case of laboratory courses this implies two days a week, or its equivalent, as determined by each department. Each minor subject is intended to occupy approximately one fourth of the time during one year for the degree of Master of Arts, and during one or two years, according to the nature of the subject and the previous training of the candidate, for the degree of Doctor of Philosophy. It is expected that the third year of study, and in certain cases both the second and the third years, will be wholly devoted to the major subject and to investigation for the dissertation.

The approval of the subject of the essay required for the degree of Master of Arts, or the subject of the dissertation required for the degree of Doctor of Philosophy, as well as the essay or dissertation itself, rests with the instructor in charge of the candidate's major subject. It is desirable that these studies should be related, and, when practicable, that they should be treated respectively as preliminary and completed investigations. Great importance is attached to the character of the final dissertation. While it must depend for acceptance chiefly on the subject-matter, it should show good literary workmanship, especially by directness and clearness of statement. It should demonstrate the author's capacity to do original scientific work, and to render an intelligible account thereof. It should evince a familiarity with the literature of the subject, and with the latest methods of research applicable to it. The treatment should be as concise as the nature of the work permits. Every dissertation should be preceded by a clear introductory statement setting forth the nature and the scope of the research, and be followed by a *résumé* of the results and the conclusions obtained. It should also be accompanied by a table of contents and by a list of the authorities consulted in its preparation.

### Special Students

Students who are not candidates for a degree may be permitted to pursue such courses from among those offered by this Faculty as they may be found qualified to enter upon. Each applicant must demonstrate his preparation for, and his ability to pursue, the course or courses selected, and of his qualifications the heads of the departments in which he proposes to study shall be the judges. In general these special courses are open only to advanced students.

## COURSES OF STUDY

For the courses offered for 1903-04, see departmental statements as follows:

- Anatomy, page 63.
- Astronomy, page 71.
- Bacteriology, page 164
- Botany, page 74.
- Chemistry, page 79.
- Geology, page 110.
- Mathematics, page 128.
- Mechanics, page 139.
- Mineralogy, page 144
- Physics, page 172.
- Physiological Chemistry, page 175.
- Physiology, page 176.
- Zoölogy, page 187.

For more detailed accounts of the courses and for the tender of 1904-05, application should be made for the *Announcement of the Schools of Political Science, Philosophy, and Pure Science*, and for the *Divisional Announcements of Biology, of Chemistry, of Geology, Geography, and Mineralogy, and of Mathematical and Physical Science*.

## REGISTER OF STUDENTS

### Under the Faculties of Political Science, Philosophy, and Pure Science

NOTE.—(P), signifying "Partial Attendance," following the name of a candidate, indicates that the total hours of attendance for which this student is registered are not sufficient to fulfil the minimum residence requirement for the degree of Master of Arts in one year, or that for the degree of Doctor of Philosophy in two years.

- AARON, REV. A. (P).....Passaic, N. J.  
Augsburg College, A.B., 1893.  
*American History.*
- ABURATANI, JIROSHI.....Tokio, Japan  
Doshisha College, Japan (equiv. A.B.), 1893.  
*Sociology and Statistics, Political Economy and Finance.*
- AGGER, EUGENE EWALD.....Bond Hill, O.  
University of Cincinnati, A.B., 1901; A.M., 1902.  
*Political Economy and Finance, Sociology and Statistics, American History.*
- ALEXANDER, LUTHER HERBERT.....Stratford, Ont., Canada  
University of Toronto, A.B., 1883; A.M., 1885.  
*Romance Languages and Literatures.*
- ALSBERG, ELSA (P).....(Mhntn) New York City  
Columbia University, A.B., 1902.  
*Spanish.*
- ALWARD, FANNIE ISABEL (P).....Elizabeth, N. J.  
Columbia University, A.B., 1898.  
*Physics.*
- ANSPACHER, LOUIS KAUFMAN (P).....(Mhntn) New York City  
College of the City of New York, A.B., 1897.  
Columbia University, A.M., 1899; LL.B., 1902.  
*Philosophy.*
- ARMSTRONG, KATHARINE (P).....Louisville, Ky.  
Columbia University, A.B., 1902.  
*European History.*
- ARNOLD, FELIX.....(Mhntn) New York City  
College of the City of New York, A.B., 1898.  
New York University, Ph.D., 1903.  
*Psychology, Philosophy.*
- ARNOLD, WILLIAM CALVIN.....York, Pa.  
Lebanon Valley College, A.B., 1903.  
*Sociology and Statistics, Political Economy and Finance, Psychology.*
- AUTENRIETH, GEORGE CARL.....(Mhntn) New York City  
College of the City of New York, B.S. 1902.  
*Mechanics, Mathematics.*
- AYRES, MARY STEVENS.....(Mhntn) New York City  
Wellesley College, A.B., 1900.  
*English, Comparative Literature.*
- BABCOCK, EARLE BROWNELL (P).....Chicago, Ill.  
University of Chicago, Ph.B., 1903.  
*Romance Languages and Literatures, Roman Law and Comparative Jurisprudence.*
- BAESLACK, FREDERICK WILLIAM.....Fitchburg, Mass.  
Amherst College, A.B., 1902.  
*Zoology, Palaeontology, Physiology.*

- BAILEY, JOHN FRANKLIN.....Khehive, Pa.  
Waynesburg College, A.B., 1903.  
*Political Philosophy, American History, Sociology and Statistics.*
- BAIR, JOSEPH HERSHEY.....Hall, Pa.  
Michigan University, Ph.B., 1900; A.M., 1901.  
Columbia University, Ph.D., 1903.  
*Psychology, Philosophy.*
- BAKER, EZRA FLAVIUS.....Harrisonville, Mo.  
Missouri Valley College, A.B., 1898.  
*Philosophy, Greek.*
- BAKER, FRANK CLYDE.....(Mhtn) New York City  
Oberlin College, A.B., 1886.  
Yale University, B.D., 1890.  
New York Law School, LL.B., 1900.  
*Constitutional Law, Sociology and Statistics.*
- BALDWIN, AGNES (P).....Newark, N. J.  
Columbia University, A.B., 1897; A.M., 1900.  
*Classical Archaeology and Epigraphy.*
- BALDWIN, ALICE MARY.....West Orange, N. J.  
Cornell University, A.B., 1900; A.M., 1902.  
*European History, American History, Political Economy and Finance.*
- BALDWIN, FLORENCE THEODORA (P).....(Mhtn) New York City  
Columbia University, A.B., 1900; A.M., 1902.  
*Latin, Greek.*
- BALDWIN, SARAH LILIAN.....West Orange, N. J.  
Cornell University, A.B., 1902.  
*Romance Languages and Literatures, German.*
- BALL, MARGARET ELIZABETH.....Passaic, N. J.  
Mt. Holyoke College, A.B., 1900.  
Columbia University, A.M., 1903.  
*English, Comparative Literature.*
- BANKS, ENOCH MARVIN.....Grantville, Ga.  
Emory College, A.B., 1897; A.M., 1900.  
*Political Economy and Finance, Sociology and Statistics, American History.*
- BANTA, EFFIE MARGARET (P).....(Bklyn) New York City  
Wellesley College, A.B., 1891.  
*Comparative Literature, Italian.*
- BARRETT, MARY FRANKLIN.....Bloomfield, N. J.  
Smith College, B.L., 1901.  
*Botany.*
- BARTON, ROSE MAYARD (P).....Oneonta, N. Y.  
Cornell University, A.B., 1893.  
*English.*
- BASEL, ALEXANDER.....(Bklyn) New York City  
Beth-Hamidrasch, Frankfurt.  
Testimonium maturitatis, 1902.  
*Semitics, Philosophy.*
- BATES, ABBY BARSTOW (P).....(Br) New York City  
Boston University, A.B., 1887; A.M., 1892.  
*Political Economy and Finance.*
- BATESON, CHARLES EDWARD WAGSTAFFE.....(Mhtn) New York City  
Columbia University, E.M., 1902.  
*Geology, Mining, Mineralogy.*
- BAUMEISTER, JOHN.....(Q) New York City  
College of the City of New York, B.S., 1881; M.S., 1883.  
New York University, A.M., 1900.  
*Germanics.*
- BEARD, CHARLES AUSTIN.....Newcastle, Ind.  
De Pauw University, Ph.B., 1893.  
Columbia University, A.M., 1903.  
*Constitutional Law, International Law, European History.*



- BEARD, GRACE ALDEN (P).....(Bklyn) New York City  
Vassar College, A.B., 1895.  
*Psychology.*
- BEATTY, LEON OLIVER.....Lexington, Ky.  
Kentucky University, B.S., 1899.  
Kentucky State College, M.S., 1900.  
*Chemistry, Electrical Engineering, Metallurgy.*
- DE BEAUMONT, VICTOR ERNEST.....(Mhtn) New York City  
Columbia University, A.B., 1901.  
*Romance Languages and Literatures, Latin.*
- BECHERT, ALEXANDER OTTO.....(Bklyn) New York City  
Columbia University, A.B., 1903.  
*Germanics, Education.*
- BECKWITH, FRANCES A. (P).....Utica, N. Y.  
Vassar College, A.B., 1897.  
*American History.*
- BELCHER, KATHARINE FISHER (P).....East Orange, N. J.  
Vassar College, A.B., 1898.  
*American History.*
- BENCHOFF, HOWARD JOHNSTON.....Chambersburg, Pa.  
Franklin and Marshall College, A.B., 1898.  
*English, Latin.*
- BENNETT, HARRY BURTIS.....Storm Lake, Ia.  
Cornell College (Ia.), Ph.B., 1901.  
*Political Economy and Finance, Sociology and Statistics, Constitutional Law.*
- BERG, CLARA DE LISSA.....(Mhtn) New York City  
Columbia University, A.B., 1898; A.M., 1902.  
*Comparative Literature, European History.*
- BERGER, MARGARET FLORENTINE (P).....(Mhtn) New York City  
*Germanics.*
- BERGOPFEN, HERMAN (P).....(Mhtn) New York City  
College of the City of New York, B.S., 1900.  
*English.*
- BIGELOW, LEWIS SHERRILL (P).....(Mhtn) New York City  
Yale University, A.B., 1887; LL.B., 1889.  
*Comparative Literature.*
- BIGONGIARI, DINO.....(Bklyn) New York City  
Columbia University, A.B., 1902.  
*Latin, Greek, French.*
- BISSELL, Rev. PELHAM ST. GEORGE.....Freeport, N. Y.  
Columbia University, A.B., 1880.  
King's College (London), A.K.C., 1899.  
*Sociology and Statistics, Political Economy and Finance, European History.*
- BLAKE, FREDERIC COLUMBUS.....Boulder, Colo.  
University of Colorado, Ph.B., 1901.  
*Physics, Mechanics, Chemistry.*
- BLAKELY, GILBERT SYKES (P).....(Br) New York City  
Dartmouth College, A.B., 1888.  
Harvard University, A.M., 1897.  
*English.*
- BLANK, MARCO ISSER.....(Mhtn) New York City  
New York University, M.D., 1897.  
Columbia University, A.B., 1903.  
*Psychology, Philosophy, Anthropology.*
- BLECHMAN, NATHAN.....(Mhtn) New York City  
College of the City of New York, A.B., 1902.  
*Philosophy, Comparative Literature, Sociology and Statistics.*
- BOARDMAN, ANNE EVELYN (P).....Medford, Mass.  
Boston University, A.B., 1891.  
*English.*
- BONSALL, VICTOR FITCH MOUNT.....(Mhtn) New York City  
Columbia University, A.B., 1901; A.M., 1902.  
*Latin, Greek.*

- BOYD, WILLIAM KENNETH.....Asheville, N. C.  
Trinity College (N. C.), A.B., 1897; A.M., 1898.  
*European History, American History.*
- BOYLAN, ARTHUR ALOYSIUS (P).....(Mhtn) New York City  
College of the City of New York, A.B., 1902.  
*English.*
- BRACKETT, MARY MORRELL (P).....(Mhtn) New York City  
Columbia University A.B., 1899.  
*Botany.*
- BRADSHER, EARL LOCKRIDGE.....Clifton Hill, Mo.  
University of Missouri, A.B., 1903.  
*English, Comparative Literature.*
- BRIGHT, HARRY EDWARD (P).....Madison, N. J.  
Mt. Union College, A.B., 1902.  
*Sociology and Statistics.*
- BRISCO, NORRIS ARTHUR.....Napanee, Ont., Canada  
Queen's University, A.B., 1898; A.M., 1900.  
*Political Economy and Finance, Sociology and Statistics, Political Philosophy.*
- BROOMALL, LAURA BAKER (P).....Cheyney, Pa.  
University of Michigan, B.S., 1898.  
*Botany.*
- BRUES, CHARLES THOMAS.....(Mhtn) New York City  
University of Texas, B.S., 1901; M.S., 1902.  
*Zoology, Physiology.*
- BRUNN, FREDA MARGHERITA (P).....(Bklyn) New York City  
Adelphi College, A.B., 1899.  
*Psychology.*
- BURRITT, MARION TILDEN (P).....(Br) New York City  
Smith College, B.L., 1892.  
*English.*
- BURTON, HARRIET WRIGHT (P).....(Mhtn) New York City  
Columbia University, A.B., 1902.  
*Comparative Literature, English.*
- BUTTERFIELD, ARTHUR DEXTER.....Burlington, Vt.  
Worcester Polytechnic Institute, B.S., 1893; M.S., 1898.  
*Mechanics, Astronomy, Mathematics.*
- CAMPBELL, HERBERT GRANT.....Sheldon, Ia.  
Cornell College, Ph.B., 1896.  
Columbia University, A.M., 1902.  
*Philosophy, Psychology.*
- CAMPBELL, JOHN (P).....(Br) New York City  
College of the City of New York, A.B., 1888.  
Columbia University, A.M., 1890.  
New York University, Ph.D., 1896.  
*Semitics.*
- CANFIELD, DOROTHEA FRANCES (P).....(Mhtn) New York City  
Ohio State University, Ph.B., 1899.  
*Romance Languages and Literatures.*
- CAPLAN, ELIAS NATHAN (P).....(Mhtn) New York City  
College of the City of New York, A.B., 1899.  
*English.*
- CARLL, LYDIA ADELE (P).....(Q) New York City  
Columbia University, A.B., 1902.  
*Comparative Literature.*
- CARLSON, FRANK.....S. Minneapolis, Minn.  
University of Minnesota, A.B., 1901.  
University of Washington, A.M., 1903.  
*American History, European History, Political Economy and Finance.*
- CARPENTIER, MARIUS ALEXANDRE (P).....(Mhtn) New York City  
College of the City of New York, B.S., 1889.  
New York College of Pharmacy, Ph.G., 1890.  
*Romance Languages and Literatures.*

- CARSTENSEN, GUSTAV ARNOLD.....Riverdale, N. Y.  
Hobart College, A.B., 1873.  
New York University, A.M., 1902.  
*Semitics, Ancient History.*
- CATHERINET, JULES.....Neuilly l'Eveque, France  
Sorbonne, Licence es Sciences, 1903.  
*Geology, Metallurgy, Mining.*
- CAULFIELD, JOHN JOSEPH.....(Br) New York City  
College of the City of New York, B.S., 1903.  
*American History, European History, Political Economy and Finance.*
- CECIL, JOHN KINDLE.....Passaic, N. J.  
De Pauw University, A.B., 1897.  
*Semitics.*
- CHAMBERLAIN, RAYMOND (P).....(Bklyn) New York City  
Columbia University, A.B., 1901; A.M., 1902.  
*Psychology.*
- CHICKERING, EDWARD CONNER (P).....(Q) New York City  
Yale University, A.B., 1896.  
Harvard University, A.M., 1897.  
*Latin.*
- CHURCHILL, MARTHA B. (P).....Springville, N. Y.  
Syracuse University, A.B., 1896.  
*Latin.*
- CLARK, ALDEN HYDE.....(Mhtn) New York City  
Amherst College, A.B., 1900.  
*Sociology and Statistics.*
- COBB, EDWARD SCRIBNER.....Newton Center, Mass.  
Amherst College, A.B., 1900.  
*Philosophy, Sociology and Statistics, European History.*
- COBB, PALMER.....Danville, Va.  
University of North Carolina, Ph.B., 1901.  
Columbia University, A.M., 1903.  
*Germanics.*
- COCKRELL, EGBERT BAILEY.....Bozeman, Mont.  
Iowa College of Law, LL.B., 1897.  
Add-Ran University, A.B., 1900.  
Drake University, A.M., 1903.  
*International Law, Roman Law and Comparative Jurisprudence, American History.*
- CODDINGTON, EMILY MATILDA (P).....(Mhtn) New York City  
London University, A.B., 1896.  
Columbia University, A.M., 1898.  
*Mathematics.*
- COHEN, HELEN LOUISE (P).....(Mhtn) New York City  
Columbia University, A.B., 1903.  
*English.*
- COHEN, LOUIS.....Chicago, Ill.  
Armour Institute of Technology, B.S., 1901.  
*Mechanics.*
- COHEN, LOUIS JACOB.....(Mhtn) New York City  
College of the City of New York, B.S., 1899.  
New York University, M.S., 1902.  
*Chemistry, Mineralogy.*
- COHEN, MORRIS RAPHAEL.....(Mhtn) New York City  
College of the City of New York, B.S., 1900.  
*Philosophy, Psychology, Sociology and Statistics.*
- COLE, ARTHUR CARMAN.....N. Craftsbury, Vt.  
Olivet College, A.B., 1894.  
*English, Education.*
- COLLIER, JOHN.....Atlanta, Ga.  
*Zoology, Physiology.*

- COLLINS, CHARLES.....Kirkwood, Mo.  
University of Missouri, A.B., 1903.  
*Romance Languages and Literatures, Psychology.*
- COLLOQUE, ORROR.....Sewaren, N. J.  
Trinity College, A.B., 1899.  
New York University, A.M., 1901.  
*Philosophy.*
- COMIN, ROBERT (P).....(Q) New York City  
Princeton University, A.B., 1897.  
*American History.*
- COMPTON, ALFRED DONALDSON (P).....(Mhtn) New York City  
College of the City of New York, B.S., 1897.  
*Comparative Literature.*
- CONANT, MARTHA PIKE.....Greenfield, Mass.  
Wellesley College, B.S., 1890; A.M., 1895.  
*Comparative Literature.*
- CONANT, SARAH HOWARD (P).....N. Thetford, Vt.  
Wellesley College, B.S., 1887.  
*Ancient History.*
- COOPER, ISABELLA MITCHELL (P).....Troy, N. Y.  
Columbia University, A.B., 1901.  
*English.*
- CORAY, GEORGE.....Salt Lake City, Utah  
University of Utah, B.S., 1894.  
*Sociology and Statistics, Political Economy and Finance, European History.*
- CORN, PERCIVAL.....(Mhtn) New York City  
College of the City of New York, A.B., 1903.  
*Political Economy and Finance, Sociology and Statistics, Philosophy.*
- CRABINE, WINIFRED ROOSA (P).....Detroit, Mich.  
University of Michigan, B.L., 1895.  
*American History.*
- CRAM, GORDON LA FAYETTE.....(Mhtn) New York City  
University of Toronto, A.B., 1894.  
*Germanics, Education, French.*
- CRAWFORD, LEONIDAS WAKEFIELD, Jr.....Greensboro, N. C.  
Trinity College (N. C.), A.B., 1898.  
Columbia University, A.M., 1903.  
*English, American History.*
- CROWELL, JOHN WHITING (P).....(Q) New York City  
Columbia University, A.B., 1903.  
*Political Economy and Finance, American History.*
- CURTIN, MARGARET HIGGINS.....(Mhtn) New York City  
Columbia University, B.S., 1902.  
*Geology, Paleontology.*
- CUSHING, MARY GERTRUDE.....(Mhtn) New York City  
Wellesley College, B.S., 1892; A.M., 1895.  
*Romance Languages and Literatures, Latin.*
- CUTLER, SANFORD LYMAN (P).....(Mhtn) New York City  
Amherst College, A.B., 1885; A.M., 1888.  
*Latin.*
- DALY, ELIZABETH TERESA.....Yonkers, N. Y.  
Bryn Mawr College, A.B., 1901.  
Columbia University, A.M., 1902.  
*Comparative Literature.*
- DAVIDOFF, HENRY (P).....(Mhtn) New York City  
College of the City of New York, A.B., 1899.  
*English.*
- DAVIDSON, EDWARD WHEELER (P).....New Rochelle, N. Y.  
*Political Economy and Finance.*



- DAVIS, ALBERT.....(Bklyn) New York City  
Columbia University, A.B., 1903.  
*English, Comparative Literature.*
- DAVIS, ALICE (P).....(Mhtn) New York City  
Chicago University, Ph.B., 1899.  
*American History.*
- DAVIS, MARGARET CAMERON (P).....Avalon, Pa.  
University of Chicago, Ph.B., 1903.  
*English.*
- DAVIS, MICHAEL MARKS, JR.....(Mhtn) New York City  
Columbia University, A.B., 1900.  
*Sociology and Statistics.*
- DAVIS, NEWTON EADDS (P).....West Orange, N. J.  
Ohio Wesleyan University, A.B., 1901.  
*Sociology and Statistics.*
- DAVIS, OLIVE PERCY.....Sycamore, Cal.  
Leland Stanford, Jr., University, A.B., 1900.  
*English, Education, European History.*
- DAVIS, WILLIAM HARPER.....Philadelphia, Pa.  
Princeton University, A.B., 1900.  
*Psychology, Zoölogy.*
- DEIMEL, RICHARD FRANCIS.....(Mhtn) New York City  
College of the City of New York, B.S., 1902.  
Columbia University, A.M., 1903.  
*Mechanics, Mathematics, Physics.*
- DIEHL, FRANK (P).....Holt, Mich.  
University of Michigan, Ph.B., 1900.  
*Philosophy, Psychology, European History.*
- DILWORTH, JAMES FRANCIS.....Jersey City, N. J.  
Rutgers College, A.B., 1902.  
Columbia University, A.M., 1903.  
*European History, American History, Roman Law and Comparative Jurisprudence.*
- DIONNE, GUSTAVE-ADOLPHE LEO (P).....(Mhtn) New York City  
Wooster University, A.B., 1893.  
Columbia University, A.M., 1901.  
*Romance Languages and Literatures.*
- DOLGENAS, JACOB ABRAHAM.....(Mhtn) New York City  
College of the City of New York, A.B., 1902.  
*Semitics, Philosophy.*
- DONOHUE, THOMAS JAMES (P).....(Br) New York City  
College of the City of New York, B.S., 1897.  
*American History, Education.*
- DRAKE, ALICE DOYLE.....(Bklyn) New York City  
College for Women, Western Reserve University, Ph.B., 1901.  
*English, Education.*
- DROWNE, GEORGE LEONARD (P).....Providence, R. I.  
Brown University, Ph.B., 1898.  
*English, European History.*
- DRYFOOS, WALTER SCOTT.....(Mhtn) New York City  
Columbia University, A.B., 1896.  
New York Law School, LL.B., 1899.  
*Germanics, English.*
- DUBLIN, LOUIS I. (P).....(Mhtn) New York City  
College of the City of New York, A.B., 1901.  
*Zoölogy, Physiology.*
- DU BOIS, ELIZABETH HICKMAN (P).....(Mhtn) New York City  
Cornell University, A.B., 1897.  
Columbia University, A.M., 1900.  
*Latin.*

- DUNN, ALEXANDER.....(Mhnt) New York City  
Manitoba University, A.B., 1896.  
Union Theological Seminary, B.D., 1903.  
*Philosophy, Political Economy and Finance.*
- DUNN, JAMES PHILIP (P).....(Br) New York City  
College of the City of New York, A.B., 1903.  
*Music.*
- DUNNEY, JOSEPH ALOYSIUS (P).....Dunwoodie, N. Y.  
Manhattan College, A.B., 1901.  
*Semitics.*
- EASTLUND, JOHN.....Branford, Conn.  
Bethany College (Kan.), B.S., 1898.  
*English, Comparative Literature.*
- EASTMAN, CATHERINE CRYSTAL.....Elmira, N. Y.  
Vassar College, A.B., 1903.  
*Political Economy and Finance, Sociology and Statistics, American History.*
- EATON, ALLEN BARBER.....Beloit, Wis.  
Beloit College, Ph.B., 1899.  
Yale University, A.M., 1902.  
*Sociology and Statistics, Political Economy and Finance, American History.*
- EGNER, ARTHUR FREDERICK (P).....Newark, N. J.  
Columbia University, A.B., 1903.  
*International Law, American History.*
- ELKUS, SAVILLA ALICE.....(Mhnt) New York City  
Columbia University, B.S., 1903.  
*Philosophy, Psychology.*
- ENDELMAN, EDWARD.....(Mhnt) New York City  
College of the City of New York, B.S., 1900.  
New York University, A.M., 1903.  
*Philosophy, Psychology.*
- ERON, JOSEPH ELI.....(Mhnt) New York City  
Columbia University, A.B., 1902; A.M., 1903.  
*Germanics, Philosophy, Political Economy and Finance.*
- FEDTER, BRUNO.....(Mhnt) New York City  
College of the City of New York, A.B., 1903.  
*Latin, Greek, German.*
- FELD, MAX (P).....(Mhnt) New York City  
College of the City of New York, A.B., 1902.  
*Germanics, English.*
- FELDMAN, DANIEL D. (P).....(Bklyn) New York City  
University of Nebraska, B.S., 1899.  
*Mathematics.*
- FENOLLOSA, ERNEST FRANCISCO (P).....Mobile, Ala.  
Harvard University, A.B., 1874.  
*Chinese.*
- FERRIS, RALPH HALL.....(Mhnt) New York City  
University of Wooster, A.B., 1901.  
*Philosophy, Psychology, European History.*
- FIELD, FRANK EDSON.....Dover, Ill.  
Yale University, A.B., 1900.  
Union Theological Seminary, B.D., 1903.  
Columbia University, A.M., 1903.  
*Sociology and Statistics, Political Economy and Finance, European History.*
- FINNIGAN, JAMES JOSEPH (P).....(Mhnt) New York City  
Columbia University, A.B., 1900.  
*Romance Languages and Literatures.*
- FISHEL, LILLIAN HENRIETTA (P).....Babylon, N. Y.  
Wellesley College, B.S., 1890.  
*Latin.*

- FLEMING, WALLACE B. (P).....Bayonne, N. J.  
Muskingum College, A.B., 1894; A.M., 1897.  
Drew Theological Seminary, B.D., 1897.  
*Semitics, Greek.*
- FONTAINE, ANDRÉ CAMILLE.....(Mhtn) New York City  
University of France, B.L.P., 1896.  
Columbia University, A.M., 1903.  
*Romance Languages and Literatures, English.*
- FOSTER, WALTER EUGENE (P).....(Mhtn) New York City  
Williams College, A.B., 1899.  
*Latin.*
- FOWLER, SUSAN.....Catonsville, Md.  
Bryn Mawr College, A.B., 1895.  
*Latin, Greek, Roman Archaeology.*
- FOWLES, GEORGE MILTON (P).....(Mhtn) New York City  
Mt. Union College, A.B., 1895.  
Boston University, S.T.B., 1898.  
New York University, A.M., 1899.  
*Sociology and Statistics.*
- FRASER, PHILIP HILTON (P).....(Mhtn) New York City  
Princeton University, A.B., 1879; A.M., 1882.  
*English, Education.*
- FRAZER, GEORGE (P).....(Bklyn) New York City  
Adelphi College, A.B., 1903.  
*English, Education.*
- FUENTES, VENTURA (P).....(Mhtn) New York City  
College of the City of New York, A.B., 1889.  
Columbia University, M.D., 1892.  
*Romance Languages and Literatures, Comparative Literature.*
- GAGE, BROWNELL.....(Mhtn) New York City  
Yale University, A.B., 1898.  
*Chinese, European History.*
- GAGE, HARRY MOREHOUSE.....Huron, S. Dakota  
University of Wooster, A.B., 1900.  
*Philosophy, Psychology, Zoology.*
- GALLOWAY, IDA GRAY (P).....Freeport, Ill.  
University of California, Ph.B., 1892.  
*American History.*
- GARABEDIAN, HOHANNES BASKEV (P).....(Mhtn) New York City  
Euphrates College (equiv. A.B.), 1880.  
*Psychology.*
- GARRETT, FRANK.....De Soto, Ia.  
Drake University, Ch.B., 1896.  
*Chinese, Constitutional Law.*
- GERE, LOUISA BREWSTER (P).....Fulton, N. Y.  
Wellesley College, A.B., 1889.  
*English.*
- GERSCHANEK, SINAI.....(Mhtn) New York City  
College of the City of New York, A.B., 1902.  
*European History, American History, Roman Law and Comparative Jurisprudence.*
- GIBSON, JAMES STEWART.....Montclair, N. J.  
Allegheny College, A.B., 1890; A.M., 1891; Ph.D., 1893.  
*Mechanics.*
- GILBERT, CHARLES A. (P).....Madison, N. J.  
Drew Theological Seminary, B.D., 1903.  
Ohio Wesleyan University, A.M., 1903.  
*Music.*
- GILLESPIE, JAMES PACKARD.....(Mhtn) New York City  
*Political Economy and Finance, Sociology and Statistics, European History.*

- GILLIN, JOHN LEWIS (P).....Waterloo, Ia.  
Upper Iowa University, Litt.B., 1894.  
*Sociology and Statistics.*
- GINZLER, ARTHUR.....(Mhtn) New York City  
College of the City of New York, A.B., 1900.  
*Semitics, Philosophy.*
- GIOVANNITTI, ARTHUR MAXIM, (P).....(Mhtn) New York City  
Gimnasium, Italy (equiv. A.B.), 1901.  
*Romance Languages and Literatures.*
- GLEYSTEN, WILLIAM HENRY.....Alton, Ia.  
Michigan University, A.B., 1897.  
Union Theological Seminary, B.D., 1903.  
Columbia University, A.M., 1903.  
*Sociology and Statistics, Political Economy and Finance, European History.*
- GODDARD, HAROLD CLARKE.....Worcester, Mass.  
Amherst College, A.B., 1900.  
Columbia University, A.M., 1903.  
*English, Philosophy.*
- GOLD, HOWARD REUBEN.....Nazareth, Pa.  
Lafayette College, A.B., 1903.  
*English, European History.*
- GOLDENWEISER, ALEXANDER.....(Mhtn) New York City  
Columbia University, A.B., 1902.  
*Anthropology, Psychology.*
- GOLDFARB, ABRAHAM JULIUS (P).....(Mhtn) New York City  
College of the City of New York, B.S., 1900.  
*Zoology.*
- GOLDMAN, HETTY (P).....(Mhtn) New York City  
Bryn Mawr College, A.B., 1903.  
*Greek.*
- GOMPH, CHARLES LEWIS (P).....Albany, N. Y.  
Amherst College, A.B., 1900.  
*Philosophy.*
- GOODELL, JOSEPH EDWARD.....(Mhtn) New York City  
Franklin and Marshall College, A.B., 1894.  
*Chemistry.*
- GOODLATTE, AMELIA RICHARDSON (P).....Passaic, N. J.  
Wells College, A.B., 1900.  
*Botany.*
- GREEN, HOWARD CHARLES (P).....(Mhtn) New York City  
College of the City of New York, A.B., 1902.  
*American History.*
- GREGORY, WILLIAM KING.....(Mhtn) New York City  
Columbia University, A.B., 1900.  
*Zoology, Palaeontology.*
- GREY, EVA WOODWARD.....(Bklyn) New York City  
Cornell University, A.B., 1898; A.M., 1899.  
*Greek, Latin.*
- GROAT, GEORGE GORHAM.....Albany, N. Y.  
Syracuse University, A.B., 1895.  
Cornell University, A.M., 1901.  
*Political Economy and Finance, Sociology and Statistics, American History.*
- GRUENING, CLARA EMILY.....(Mhtn) New York City  
Columbia University, A.B., 1903.  
*Comparative Literature.*
- GUÉBIN, LOUISE (P).....(Bklyn) New York City  
Lycée Mohère (equiv. A.B.), 1899.  
*Romance Languages and Literatures.*
- HAAS, GEORGE CHRISTIAN OTTO.....(Mhtn) New York City  
Columbia University, A.B., 1902; A.M., 1903.  
*Indo-Iranian, German.*



- HAINES, CHARLES GROVE.....Bigmount, Pa.  
 Ursinus College, A.B., 1903.  
*Constitutional Law, Administrative Law, European History.*
- HALL, COLBY DIXON.....N. Waco, Tex.  
 Kentucky University, A.B., 1902.  
*Sociology and Statistics, Political Economy and Finance, Psychology.*
- HALL, FRANCES ESTELLE (P).....Jersey City, N. J.  
 Boston University, A.B., 1901.  
*Latin, Greek.*
- HALLECK, PARKER S.....(Mhtn) New York City  
 Colorado College, A.B., 1882.  
 University of Michigan, A.M., 1899.  
*Zoology.*
- HAMAGUCHI, ROKUNOSUKE.....Tokio, Japan.  
*International Law, Constitutional Law, Political Economy and Finance.*
- HAMILTON, JOSEPH GRÉGOIRE DE ROULHAC.....Hillsboro, N. C.  
 University of the South, A.M., 1900.  
*American History, European History, Political Economy and Finance.*
- HAMMERSLOUGH, CARRIE (P).....(Mhtn) New York City  
 Columbia University, A.B., 1896; A.M., 1897.  
*Mathematics.*
- HANKINS, FRANK HAMILTON.....Baldwin, Kan.  
 Baker University, A.B., 1901.  
*Sociology and Statistics, Political Economy and Finance, Political Philosophy.*
- HANSON, HANS OLAF (P).....(Br) New York City  
 Columbia University, A.B., 1901.  
*English.*
- HARDIN, MARY ELIZABETH (P).....Newark, N. J.  
 Elmira College, A.B., 1892.  
 New York University, A.M., 1900.  
*English.*
- HARPER, JOHN FERGUSON.....(Mhtn) New York City  
 College of the City of New York, B.S., 1901.  
 Columbia University, A.M., 1902.  
*American History.*
- HARTMANN, HENRY GOTTLIEB.....(Q) New York City  
 Brooklyn Polytechnic Institute, A.B., 1900.  
*Philosophy, Political Economy and Finance.*
- HARTMANN, JACOB WITTMER.....(Mhtn) New York City  
 College of the City of New York, B.S., 1901.  
*Germanics, English.*
- HATHAWAY, BISHOP.....(Mhtn) New York City  
 Missouri State University, A.B., 1902.  
*Political Economy and Finance, Sociology and Statistics, Constitutional Law.*
- HAUHART, WILLIAM FREDERIC.....Ballwin, Mo.  
 Central Wesleyan College, Ph.B., 1900.  
 University of Missouri, A.B., 1901; A.M., 1902.  
*Germanics, English, Comparative Literature.*
- HAWORTH, PAUL LELAND.....West Newton, Ind  
 Indiana University, A.B., 1899; A.M., 1901.  
*American History, European History, Administrative Law.*
- HAYNES, ROWLAND.....Ayer, Mass.  
 Williams College, A.B., 1902.  
*Philosophy, European History.*
- HECHT, FELIX.....(Bklyn) New York City  
 College of the City of New York, B.S., 1900.  
 Columbia University, A.M., 1902.  
*English, German.*
- HENMON, VIVIAN ALLEN CHARLES.....Lindsborg, Kan.  
 Bethany College, A.B., 1895; A.M., 1899.  
*Psychology, Philosophy, Education.*

- HERBERT, JOHN CURTIS.....Agricultural College, Miss.  
Mississippi Agricultural College, B.S., 1887; M.S., 1892.  
*American History, European History, Political Economy and Finance.*
- HERBERT, LE ROY BEDFORD (P).....(Mhtn) New York City  
College of the City of New York, A.B., 1898.  
*European History.*
- HERRICK, JOSEPH CAWDELL.....Dunwoodie, N. Y.  
University of Virginia, A.B., 1896.  
Johns Hopkins University, Ph.D., 1900.  
*Psychology.*
- HERZFELD, ELSA GOLDINA (P).....(Mhtn) New York City  
Columbia University, A.B., 1903.  
*Sociology and Statistics, Political Economy and Finance.*
- HEWITT, MARGARET L. (P).....Newark, N. J.  
Wellesley College, A.B., 1897.  
*English.*
- HIGGINS, ALICE (P).....(Bklyn) New York City  
Adelphi College, A.B., 1902.  
*Romance Languages and Literatures, Education.*
- HILL, MARY ANDERSON (Mrs.) (P).....(Mhtn) New York City  
Vassar College, A.B., 1889.  
*Sociology and Statistics.*
- HINCKLEY, FRANK ERASTUS (P).....Oakland, Cal.  
Beloit College, A.B., 1892; A.M., 1897.  
*International Law.*
- HIRSCH, BLANCHE (P).....(Mhtn) New York City  
Columbia University, B.S., 1902.  
*Mathematics.*
- HIRSDANSKY, SIMON.....(Mhtn) New York City  
College of the City of New York, B.S., 1899.  
*Psychology, Philosophy.*
- HODLEY, HARWOOD (P).....(Mhtn) New York City  
Columbia University, A.B., 1900.  
*Greek.*
- HOCK, CHARLES THEODORE.....Bloomfield, N. J.  
New York University, Ph.D., 1902.  
*Semitics.*
- HODGKINS, GEORGINA (P).....(Mhtn) New York City  
University of California, Ph.B., 1892.  
*English.*
- HOFFMAN, ALFRED.....(Bklyn) New York City  
Columbia University, A.B., 1903.  
*Chemistry, Physics.*
- HOLLIS, IDA MINERVA (P).....Hornellsville, N. Y.  
Columbia University, B.S., 1901.  
*American History, Political Economy and Finance.*
- HORNE, WILLIAM TITUS.....Lincoln, Neb.  
University of Nebraska, B.S., 1898.  
*Botany, Physiological Chemistry.*
- HOUSEL, ALTA MAE.....Norton, Kan.  
Kansas Wesleyan University, A.B., 1900; A.M., 1901.  
*English, Greek, German.*
- HOWARD, CLARE MACLELLAN.....(Mhtn) New York City  
Columbia University, A.B., 1903.  
*English, Comparative Literature.*
- HUGHES, GEORGE EDWARD.....Logansport, Ind.  
Wabash College, A.B., 1900.  
*Psychology, Philosophy, European History.*

- HUNT, COLIN BERTRAN ..... Oxford, Eng.  
Balliol College, Oxford, A.B., 1903.  
Philosophy, Education.  
*Political Economy and Finance.*
- HUNT, EMELINE KEELER ..... Poughkeepsie, N. Y.  
Vassar College, A.B., 1889.  
*English, Education.*
- HURLBURT, STEPHEN AUGUSTUS (P) ..... (Mhtn) New York City  
University of Wisconsin, A.B., 1901; A.M., 1902.  
*Greek Archaeology.*
- HUSSAKOF, LOUIS ..... (Mhtn) New York City  
College of the City of New York, B.S., 1900.  
*Zoology, Physiology, Physiological Chemistry.*
- HUTCHINGS, DE WITT VERMILYE (P) ..... Englewood, N. J.  
Princeton University, A.B., 1901.  
*Sociology and Statistics, European History.*
- HUTTON, MINA (P) ..... Forest, Canada  
Toronto University, A.B., 1898; A.M., 1902.  
*Germanics.*
- HYDE, HENRY ST. JOHN (P) ..... (Mhtn) New York City  
Columbia University, Ph.B., 1896; A.M., 1898.  
*Chemistry.*
- ACKSON, KATHERINE ..... London, Ky.  
Ohio Wesleyan University, A.B., 1898; A.M., 1900.  
*English, Comparative Literature.*
- JACOBS, LEO (P) ..... (Mhtn) New York City  
College of the City of New York, A.B., 1900.  
*Philosophy.*
- JANES, HENRY LORENZO ..... Racine, Wis.  
University of Wisconsin, B.L., 1902; M.L., 1903.  
*Administrative Law, Constitutional Law, Sociology and Statistics.*
- JEFFREY, JESSIE WRIGHT ..... Washington, Ia.  
Northwestern University, Ph.B., 1901.  
*English, Education.*
- JENKINS, MAMIE ELIZABETH ..... Raleigh, N. C.  
Trinity College (N. C.), A.B., 1896.  
*Latin, German, Education.*
- JOFFÉ, JOSHUA ABRAHAM (P) ..... (Mhtn) New York City  
*Philosophy.*
- JOHNSON, ADÈLE REMSEN (P) ..... (Bklyn) New York City  
Columbia University, A.B., 1901; A.M., 1903.  
*Spanish.*
- JOHNSTON, FANNIE ..... Fenton, Mich.  
University of Minnesota, Ph.B., 1901.  
*English, Education.*
- JONES, EDNA BLANCHE ..... (Mhtn) New York City  
Columbia University, A.B., 1903.  
*European History, American History, Education.*
- JONES, WALTER CUTLER (P) ..... Youngstown, O.  
Western Reserve University, A.B., 1901.  
*Philosophy, European History.*
- JORGENSEN, THEODORE (P) ..... (Mhtn) New York City  
Western College, Ph.B., 1900.  
*Germanics.*
- JOSEPH, OSCAR LOOS ..... Cranford, N. J.  
Union Theological Seminary, B.D., 1903.  
*Sociology and Statistics, Philosophy, Psychology.*
- JUDSON, LEULAH JEANNETTE ..... Dobbs Ferry, N. Y.  
University of Minnesota, A.B., 1903.  
*American History, European History, Education.*
- KAMADA, TOKICHI ..... Iyo Imatari, Japan  
Missouri Valley College, A.B., 1903.  
*Sociology and Statistics, Political Economy and Finance.*

- KANOLT, CLARENCE WHITNEY.....(Mhtn) New York City  
Columbia University, B.S., 1902.  
*Chemistry, Mathematics, Mechanics.*
- KAPLAN, MORDECAI MENAHEM (P).....(Mhtn) New York City  
College of the City of New York, A.B., 1900.  
*Philosophy.*
- KASUGAI, JOTARO.....(Mhtn) New York City  
Commercial College, Tokio, Japan (equiv. A.B.), 1898.  
*Political Economy and Finance, Sociology and Statistics, Constitutional Law.*
- KEEP, AUSTIN BAXTER.....(Bklyn) New York City  
Amherst College, A.B., 1897; A.M., 1901.  
*American History, European History, Political Economy and Finance, International Law.*
- KEITH, MARY HELEN.....Braintree, Mass.  
Mt. Holyoke College, B.S., 1894.  
*Physical Chemistry, Physics, Education.*
- KELLOGG, PAUL UNDERWOOD.....(Mhtn) New York City  
*Political Economy and Finance.*
- KEMP, WILLIAM CULLEN BRYANT.....(Mhtn) New York City  
Columbia University, A.B., 1900; A.M., 1901; LL.M., 1901.  
*International Law, Constitutional Law, Administrative Law, American History.*
- KENNEDY, MARY STEWART.....(Mhtn) New York City  
Adelphi College, A.B., 1901.  
Columbia University, A.M., 1902.  
*Comparative Literature, French.*
- KING, WILLIAM WALLACE.....Kingston, Ont., Canada  
Queen's University, A.M., 1895.  
*Latin, Greek, Education.*
- KINGSLEY, CLARENCE DARWIN (P).....Syracuse, N. Y.  
Colgate University, B.S., 1897.  
*Sociology and Statistics, Education.*
- KLASS, CARL NOETLING (P).....Indianapolis, Ind.  
Wabash College, A.B., 1901.  
*Sociology and Statistics, European History.*
- KLEIN, DAVID.....(Mhtn) New York City  
College of the City of New York, A.B., 1902.  
*English, German.*
- KNOX, RAYMOND COLLYER.....(Mhtn) New York City  
*Sociology and Statistics.*
- KNUDSON, MABEL ALVOED (P).....(Mhtn) New York City  
Adelphi College, A.B., 1899.  
*English.*
- KOENIG, NICHOLAS AUGUST.....(Mhtn) New York City  
Columbia University, A.B., 1903.  
*Semitics, German.*
- KOHN, LUCILE.....(Mhtn) New York City  
Columbia University, A.B., 1903.  
*Greek, Latin, Ancient History.*
- KOIZUNI, SEIZO.....Osaka, Japan  
*Political Economy and Finance, Sociology and Statistics.*
- KOTTMAN, WILLIAM ADOLPH (P).....(Mhtn) New York City  
College of the City of New York, B.S., 1886.  
Columbia University LL.B., 1889.  
*Administrative Law.*
- KOVAR, ABRAHAM.....(Mhtn) New York City  
College of the City of New York, B.S., 1901.  
Columbia University, A.M., 1903.  
*English, Comparative Literature, Philosophy.*



- KRAMER, STELLA.....Cincinnati, O.  
University of Cincinnati, B.L., 1899.  
University of Pennsylvania, A.M., 1902.  
*European History, American History, Sociology and Statistics.*
- KUPFER, ELSIE.....(Mhntn) New York City  
Columbia University, A.B., 1899; A.M., 1901.  
*Botany, Zoology.*
- KUWASHIMA, B. HISAO.....Japan  
First Koto Gakko, Tokio (equiv. A.B.), 1899.  
*Political Economy and Finance, Sociology and Statistics, International Law.*
- DE LAGUNA, FREDERICA.....California  
Leland Stanford, Jr., University, A.B., 1896.  
*English, Education, Comparative Literature.*
- LAMME, MAURICE ALLISON.....Bozeman, Mont.  
Montana Agricultural College, B.S., 1903.  
*Chemistry, Mineralogy, Geology.*
- LANGDON, STEPHEN HERBERT.....Ida, Mich.  
University of Michigan, A.B., 1898; A.M., 1899.  
Union Theological Seminary, B.D., 1903.  
*Semitics, Greek.*
- LARKIN, MICHAEL JOSEPH (P).....Kingston, N. Y.  
Fordham College, A.B., 1900.  
*Philosophy, Sociology and Statistics.*
- LASELL, GEORGE MERRILL.....Plattsburg, N. Y.  
Illinois Wesleyan University, Ph.B., 1903.  
*American History, European History, Sociology and Statistics.*
- LATHAM, MARION ELIZABETH.....(Mhntn) New York City  
Columbia University, A.B., 1903.  
*Botany, Physics.*
- LAU, ROBERT JULIUS.....Newark, N. J.  
Central Pennsylvania College, A.B., 1900.  
Columbia University, A.M., 1901.  
*Semitics, Turkish.*
- LAUGHLIN, HUGH CLARENCE (P).....(Mhntn) New York City  
Ohio State University, A.B., 1890.  
University of Nebraska, A.M., 1895.  
*English.*
- LAVELL, CECIL FAIRFIELD (P).....Kingston, Ont., Canada  
Queen's University, A.M., 1894.  
*European History.*
- LAWSON, CHARLES FRANCIS.....(Mhntn) New York City  
Columbia University, A.B., 1903.  
*English, Comparative Literature.*
- LAWTON, GRACE EVELYN (P).....Newport, R. I.  
Bryn Mawr College, A.B., 1898.  
*Latin.*
- LEARY, RUSSEL WOODWARD.....Elizabeth, N. J.  
Rutgers College, A.B., 1902.  
*Greek, Greek Archaeology, Latin.*
- LEE, MARY.....Knoxville, Tenn.  
University of Tennessee, B.S., 1902.  
*English, Education.*
- LEHMAN, EUGENE HEITLER.....Pueblo, Colo.  
Yale University, A.B., 1902.  
*Philosophy, Hebrew.*
- LESEM, WILLIAM WOLFE (P).....(Mhntn) New York City  
Columbia University, A.B., 1899; A.M., 1901; M.D., 1903.  
*Anatomy.*
- LEVY, HENRY ALFRED (P).....(Mhntn) New York City  
College of the City of New York, A.B., 1900.  
*Mathematics.*

- LEWISOHN, LUDWIG.....Charleston, S. C.  
College of Charleston, A.B., A.M., 1901.  
Columbia University, A.M., 1903.  
*English, German.*
- LICHTENBERGER, JAMES P.....(Mhtn) New York City  
Eureka College, A.B., 1893.  
Hiram College, A.M., 1902.  
*Sociology and Statistics, Political Economy and Finance.*
- LOGAN, JOHN HUBBARD (P).....Goshen, Ala  
Mercer University, A.B., 1900.  
*Philosophy.*
- LOGAN, LILY (P).....Howardsville, Va.  
Tulane University, A.B., 1897.  
Columbia University, A.M., 1900.  
*Botany, Comparative Literature.*
- LOOMIS, LOUISE ROPES.....(Mhtn) New York City  
Wellesley College, A.B., 1897.  
Columbia University, A.M., 1902.  
*European History, American History.*
- LOSHE, LILLIE DEMING.....Stamford, Conn.  
Bryn Mawr College, A.B., 1899.  
Columbia University, A.M., 1903.  
*English, Comparative Literature.*
- LOTZ, JOHN HENRY.....Kinsman, O.  
Williams College, A.B., 1898.  
*Sociology and Statistics, Political Economy and Finance, European History.*
- LOWD, EMMA FULLER (P).....Salem, Mass.  
Boston University, A.B., 1887.  
*English.*
- LYONS, ALEXANDER (P).....(Bklyn) New York City  
McMicken University, B.L., 1891.  
*Sociology and Statistics, Philosophy.*
- MACCRACKEN, HENRY NOBLE (P).....(Mhtn) New York City  
New York University, A.B., 1900.  
*English.*
- MACLANE, DONALD BRADFORD (P).....New Haven, Conn.  
Yale University, A.B., 1903.  
*Philosophy, European History.*
- MACVAY, ANNA PEARL (P).....Athens  
Ohio University, A.B., 1892.  
*Latin.*
- McCLEMENT, THOMAS BULLINGER.....(Mhtn) New York City  
*Sociology and Statistics, Psychology, Philosophy.*
- McCOLLOM, HAROLD CHAFFEE.....(Bklyn) New York City  
Columbia University, A.B., 1903.  
*Latin, English, Constitutional Law.*
- McCOOK, JANETTA ALEXANDER.....(Mhtn) New York City  
Columbia University, A.B., 1902; A.M., 1903.  
*Philosophy, Sociology and Statistics.*
- McCULLOCH, CHAMPE CARTER.....Washington, D. C.  
Baylor University, A.B., 1885; Ph.D., 1891.  
Columbia University, M.D., 1892.  
*Zoology, Bacteriology, Chemistry.*
- McKINNEY, ISABEL.....De Land, Fla.  
University of Chicago, A.B., 1901.  
*English, Education.*
- McNEELY, ELIZABETH (P).....Carleton Place, Ontario, Canada  
University of Toronto, A.B., 1896.  
*European History.*

- MCQUADE, BERNARD FRANCIS (P).....(Mhtn) New York City  
St. Mary's University, A.B., 1902.  
*Philosophy, Sociology and Statistics.*
- MACKINTOSH, PETER DUNCAN (P).....West Bay, N. S., Canada  
Dalhousie College, A.B., 1900; A.M., 1901.  
*Philosophy.*
- MAGEWORTH, JULIUS OTIS (P).....(Br) New York City  
College of the City of New York, A.B., 1898.  
*English.*
- MARSH, HOWARD DANIEL.....Los Angeles, Cal.  
Ohio Wesleyan University, A.B., 1901; A.M., 1902.  
*Psychology, Education, Sociology and Statistics.*
- MARTIN, LOUIS ADOLPHE, Jr.....Hoboken, N. J.  
Stevens Institute of Technology, Mech.E., 1900.  
Columbia University, A.M., 1903.  
*Mechanics, Mathematics, Physics.*
- MASSEE, WILLIE WATSON.....Menomonie, Wis.  
University of Minnesota, Litt.B., 1901.  
Columbia University, A.M., 1903.  
*English.*
- MATHESON, KENNETH GORDON.....Atlanta, Ga.  
Leland Stanford, Jr., University, A.M., 1897.  
*English, Education, Comparative Literature.*
- MAXFELD, CHARLES ARTHUR (P).....(Mhtn) New York City  
*Chinese.*
- MEAD, BELLE L. (P).....Greenwich, Conn.  
Mt. Holyoke College, A.B., 1900.  
*Sociology and Statistics, American History.*
- MEAD, NELSON PRENTISS.....(Br) New York City  
College of the City of New York, B.S., 1899.  
Columbia University, A.M., 1903.  
*Constitutional Law, Administrative Law, Political Economy and Finance.*
- MERTELMAYER, GIBBERT CARL AUGUST.....(Mhtn) New York City  
Stevens Institute of Technology, Mech.E., 1903.  
*Mechanics, Chemistry, Electrical Engineering.*
- MESERVE, ELIZABETH EUNICE (P).....Waterville, Me.  
Mt. Holyoke College, B.S., 1895.  
*Zoölogy.*
- METZENTHIN, WALDEMAR ERIC.....Steelton, Pa.  
Franklin and Marshall College, A.B., 1899.  
*Germanics, Education.*
- MEYER, ARNOLD WILLIAM.....Alton, Ia.  
Iowa College, A.B., 1899.  
*Chemistry.*
- MEYER, MARTIN ABRAHAM.....Albany, N. Y.  
University of Cincinnati, A.B., 1899.  
Hebrew Union College, B.D., 1901.  
*Semitics, Anthropology.*
- MICHAEL, GEORGE WASHINGTON (P).....(Mhtn) New York City  
College of the City of New York, B.S., 1897.  
*English.*
- MICHAEL, JOSEPH.....(Mhtn) New York City  
College of the City of New York, B.S., 1903.  
*English, German.*
- MICHAEL, LOUIS GUY.....Hastings, Mich.  
Michigan Agricultural College, B.S., 1903.  
*Mineralogy, Geology, Chemistry.*
- MILLER, ELMER ISAIAH.....Chico, Cal.  
Leland Stanford, Jr., University, A.B., 1896; A.M., 1897.  
*American History, European History, International Law.*

- MILLER, MADGE DANIELS (P).....Lawrence, N. Y.  
Bryn Mawr College, A.B., 1901.  
*European History.*
- MINOR, MARIE LOUISE (P).....(Mhntn) New York City  
Bryn Mawr College, A.B., 1894.  
*Zoology.*
- MITCHELL, JULIA POST.....Philadelphia, Pa.  
Smith College, B.L., 1901.  
*English, Comparative Literature.*
- MOORE, HENRIETTA EVANGELINE.....Portland, Ore.  
University of Oregon, A.B., 1888; A.M., 1891.  
University of California, M.L., 1896.  
*English.*
- MOORE, JUSTIN HARTLEY.....(Mhntn) New York City  
College of the City of New York, A.B., 1903.  
*Indo-Iranian, Greek.*
- MOORE, THOMAS BRENT.....Lexington, Ky.  
Kentucky State College, A.B., 1901.  
*Political Economy and Finance, Sociology and Statistics, Constitutional Law.*
- MORSE, LIVINGSTON BURRILL (P).....Upper Montclair, N. J.  
College of the City of New York, B.S., 1889.  
*Sociology and Statistics.*
- MOSES, JOSEPH.....(Mhntn) New York City  
University of Cincinnati, A.B., 1894.  
*English, European History, Greek.*
- MOSKOWITZ, HENRY.....(Mhntn) New York City  
College of the City of New York, A.B., 1899.  
*Philosophy, European History, Political Economy and Finance.*
- MURRAY, BENJAMIN LINDLEY (P).....(Mhntn) New York City  
University of Michigan, Ph.C., 1891; B.S., Chem., 1896; B.S., Phar., 1897.  
*Chemistry.*
- MYERS, WILLARD LAWRENCE.....(Mhntn) New York City  
College of the City of New York, A.B., 1903.  
*English, Comparative Literature.*
- NAMMACK, ELIZABETH FRANCES.....(Mhntn) New York City  
Columbia University, A.B., 1895; A.M., 1896.  
*Latin, Greek.*
- NASON, ARTHUR HUNTINGTON.....Augusta, Me.  
Bowdoin College, A.B., 1899; A.M., 1903.  
*English, European History.*
- NATHAN, MARVIN.....Buffalo, N. Y.  
Cornell University, A.B., 1900.  
*Philosophy, Sociology and Statistics.*
- NELSON, AUBREY PERCY.....Washington's Crossing, N. J.  
University of Chicago, A.B., 1902.  
*Philosophy, Sociology and Statistics, European History.*
- NEUMANN, HENRY (P).....(Mhntn) New York City  
College of the City of New York, A.B., 1900.  
New York University, A.M., 1903.  
*English.*
- NORRIS, JOHN SOWARDS.....(Mhntn) New York City  
Ohio State University, Ph.B., 1901.  
*Philosophy, Psychology.*
- OLSEN, ROBERT BRENTON (P).....Walla Walla, Wash.  
Whitman College, A.B., 1900.  
Columbia University, A.M., 1901.  
*Political Economy and Finance.*
- OLSHAUSEN, BRUNO ADOLPHUS.....California  
Leland Stanford, Jr., University, A.B., 1902.  
*Chemistry, Mechanical Engineering.*



- OPPENHEIMER, FLORENCE (P).....(Mhtn) New York City  
Columbia University, A.B., 1901.  
*Political Economy and Finance, Sociology and Statistics.*
- O'REILLY, JAMES JOSEPH (P).....Dunwoodie, N. Y.  
Manhattan College, A.B., 1900.  
*Philosophy, Sociology and Statistics.*
- ORNSTEIN, MARTHA.....(Mhtn) New York City  
Columbia University, A.B., 1899; A.M., 1900.  
*Mathematics, European History.*
- OSBURN, RAYMOND CARROLL.....(Mhtn) New York City  
Ohio State University, B.S., 1898; M.S., 1900.  
*Physiology.*
- OSK, MARCUS LEONARD.....(Mhtn) New York City  
*International Law.*
- OTIS, WILLIAM BRADY.....Des Moines, Ia.  
Iowa College, A.B., 1901.  
*English, Comparative Literature.*
- PAGE, RALPH BARLOW.....Toronto Junction, Canada  
University of Toronto, A.B., 1897; A.M., 1901.  
*European History, American History, International Law.*
- PALEY, HERMAN EVERETT (P).....(Mhtn) New York City  
College of the City of New York, A.B., 1902.  
*Music.*
- PANARONI, ALFRED GEORGE (P).....(Mhtn) New York City  
College of the City of New York, B.S., 1902.  
*English.*
- PARKER, RUTH LOUISE (P).....(Bklyn) New York City  
Vassar College, A.B., 1901.  
*Comparative Literature.*
- PATTERSON, DAVID LESLIE, Jr.....Allegheny, Pa.  
Pennsylvania State College, B.S., 1895.  
*European History, American History, Roman Law and Comparative Jurisprudence.*
- PECORINI, ALBERT (P).....(Mhtn) New York City  
Gimnasium, Venice (equiv. A.B.), 1896.  
Lyceum, Rome (equiv. A.M.), 1900.  
*Philosophy, French, Semitics.*
- PENNOYER, CHARLES HENRY (P).....Mount Vernon, N. Y.  
Tufts Divinity School, B.D., 1899.  
*Philosophy, Political Economy and Finance.*
- PERKINS, MARION ALICE (P).....(Mhtn) New York City  
Smith College, B.S., 1900.  
*Zoology.*
- PETERS, IVA LOWTHER (Mrs.).....Fishkill, N. Y.  
Syracuse University, A.B., 1901.  
*Sociology and Statistics, Political Economy and Finance, European History.*
- PHILP, MARY ISABEL (P).....Chateaugay, N. Y.  
Syracuse University, Ph.B., 1901.  
*English.*
- PICKHARDT, ERNEST WILLIAM SUTTON.....(Mhtn) New York City  
Harvard University, A.B., 1898.  
New York Law School, LL.B., 1900.  
Columbia University, A.M., 1902.  
*Greek, Latin, Greek Archæology.*
- PINSKI, DAVID.....(Mhtn) New York City  
*Germanics, English.*
- POMERENE, JENNIE (P).....Poughkeepsie, N. Y.  
Vassar College, A.B., 1886.  
*Ancient History.*

- POOL, ETHEL MANTER (P).....(Mhntn) New York City  
Columbia University, A.B., 1903.  
*Greek Archaeology.*
- PORTER, MITTIE LOVE.....Frostburg, Md.  
Randolph Macon Woman's College, A.B., 1902.  
*American History, European History, Political Economy and Finance, Sociology and Statistics.*
- PYLE, WILLARD R. (P).....(Br) New York City  
University of Michigan, B.S., 1894.  
*Mechanics.*
- QUACKENBOS, GEORGE PAYN (P).....(Mhntn) New York City  
Columbia University, A.B., 1900; A.M., 1901.  
*Greek, Indo-Iranian.*
- QUINN, JOSEPH ALEXANDER.....New Brunswick, N. J.  
*Chemistry.*
- RADIN, PAUL.....(Br) New York City  
College of the City of New York, A.B., 1902.  
*European History, Anthropology.*
- RAMSEY, HORACE MARION.....La Grande, Ore.  
Pacific University, A.B., 1899.  
University of California, A.M., 1902.  
*Semitics.*
- REED, AMY LOUISE.....(Br) New York City  
Vassar College, A.B., 1892.  
*English, European History.*
- REED, JOHN HOMER.....(Mhntn) New York City  
University of Minnesota, A.B., 1902.  
*American History, European History, Political Economy and Finance.*
- REILEY, KATHARINE CAMPBELL (P).....N. Tarrytown, N. Y.  
Vassar College, A.B., 1895.  
Columbia University, A.M., 1902.  
*Roman Archaeology.*
- REMY, ALFRED (P).....(Mhntn) New York City  
College of the City of New York, A.B., 1890.  
*Germanics.*
- RENNERT, ROSINA JULIA.....(Mhntn) New York City  
Columbia University, A.B., 1901; A.M., 1902.  
*Botany, Zoology.*
- REYNOLDS, FRANK ABRAM (P).....(Mhntn) New York City  
Northwestern University, A.B., 1891.  
Harvard University, A.M., 1900.  
*Latin.*
- RIBLET, MARY VARIAN (P).....(Mhntn) New York City  
Columbia University, B.S., 1903.  
*English.*
- RICH, STELLA R. (P).....Nashville, Tenn.  
Vanderbilt University, B.S., 1903.  
*Germanics, English, Latin.*
- RIDER, WILLIAM HARPER, JR. (P).....Minneapolis, Minn.  
Western Reserve University, A.B., 1902.  
*Philosophy, European History.*
- RITTER, JULIUS (P).....(Mhntn) New York City  
College of the City of New York, B.S., 1899.  
*Education.*
- ROBINSON, CHARLES BUDD.....Pictou, N. S., Canada  
Dalhousie University, A.B., 1891.  
*Botany, Zoology.*
- ROBINSON, PEARL OSBORNE (P).....Plain City, O.  
University of Michigan, B.L., 1898.  
*European History.*

- ROBINSON, WINIFRED JOSEPHINE.....Poughkeepsie, N. Y.  
University of Michigan, B.S., 1899.  
*Botany, Physiological Chemistry.*
- RODMAN, HENRIETTA.....(Q) New York City  
*English, European History.*
- ROE, FREDERICK WILLIAM.....Wolcott, N. Y.  
Wesleyan University, A.B., 1897.  
*English, Philosophy.*
- ROYCE, S. GRACE (P).....Brownsville, Vt.  
Smith College, A.B., 1890.  
Columbia University, A.M., 1902.  
*Latin.*
- RUSSELL, BERT.....(Mhtn) New York City  
University of Minnesota, A.B., 1902; A.M., 1903.  
*Physiological Chemistry, Physiology, Bacteriology.*
- SAXE, BERNHARD DAVID.....(Mhtn) New York City  
College of the City of New York, B.S., 1899.  
Columbia University, A.M., 1903.  
*Philosophy, Psychology.*
- SAXTON, LYNN MATEER (P).....Mechanicsburg, Pa.  
Lafayette College, B.S., 1897; M.S., 1900.  
*Political Economy and Finance, International Law.*
- SAYEKI, HANSHIRO.....Kasagi, Japan  
Indianapolis College of Law, LL.B., 1903.  
*Constitutional Law, International Law.*
- SCHARFF, VIOLETTE EUGÉNIE (P).....Chailly, Lausanne, Switzerland  
Adelphi College, A.B., 1900.  
*Education.*
- SCHLOSBERG, SAMUEL (P).....(Mhtn) New York City  
College of the City of New York, A.B., 1900.  
*English.*
- SCHUETZ, FREDERICK FABER DU FAUR.....Newark, N. J.  
Stevens Institute of Technology, M.E., 1903.  
*Chemistry, Electrical Engineering.*
- SCHUYLER, ROBERT LIVINGSTON.....(Mhtn) New York City  
Columbia University, A.B., 1903.  
*American History, European History, Political Economy and Finance.*
- SCOTT, CORA ARNOT (P).....(Mhtn) New York City  
Columbia University, A.B., 1900.  
*Physics, Mechanics.*
- SCOTT, GEORGE GILMORE (P).....(Mhtn) New York City  
Williams College, A.B., 1898; A.M., 1899.  
*Zoölogy.*
- SELBY, AUGUSTINE DAWSON.....Wooster, O.  
Ohio State University, B.S., 1893.  
*Botany.*
- SEMPER, LEWIS BUCKLEY (P).....(Bklyn) New York City  
Lehigh University, A.B., 1884.  
*English.*
- SEYMOUR, ARTHUR TRUMBULL.....Orange, N. J.  
Cornell University, B.S., 1892.  
*Physics, Mechanics, Education.*
- SHAINWALD, MAISIE SEVILLE (P).....(Mhtn) New York City  
Columbia College, A.B., 1903.  
*Sociology and Statistics.*
- SHEEHAN, JOSEPH MATTHEW (P).....(Bklyn) New York City  
St. John's College, A.B., 1892.  
*English, Education.*

- SHERIDAN, JAMES WALTER (P).....(Mhtn) New York City  
College of the City of New York, B.S., 1899.  
*English.*
- SHERMAN, FREDERIC DAVID.....(Mhtn) New York City  
University of Michigan, A.B., 1887.  
University of Leipzig, Ph.D., 1897.  
*Germanic Philology.*
- SHERMAN, LUCY FIDELIA (P).....Peekskill, N. Y.  
Columbia University, A.B., 1903.  
*Greek.*
- SHILLING, JOHN HENRY (P).....Upland, Ind.  
Taylor University, A.B., 1897; A.M., 1900; Ph.D., 1902.  
*Semitics.*
- SHOENFELD, JEROME BENJAMIN.....(Mhtn) New York City  
Columbia University, A.B., 1903.  
*Political Economy and Finance, Sociology and Statistics, International Law.*
- SHRIVER, WILLIAM PAYNE.....(Mhtn) New York City  
Johns Hopkins University, A.B., 1901.  
*Sociology and Statistics, Political Economy and Finance, European History.*
- SINCLAIR, HARRY MANSON.....Toronto, Canada  
University of Toronto, A.B., 1900; LL.B., 1903.  
*Constitutional Law, Administrative Law, Political Philosophy.*
- SMETANKA, JAROSLAV.....(Mhtn) New York City  
Gymnasium, Kolin Austria (equiv. A.B.), 1899.  
Union Theological Seminary, B.D., 1902.  
*American History, European History, Education.*
- SMITH, ALEXANDER GODFREY (P).....(Bklyn) New York City  
Columbia University, A.B., 1900; A.M., 1902.  
*Education.*
- SMITH, ALMERON WARREN (P).....(Mhtn) New York City  
University of Michigan, B.L., 1894.  
Columbia University, A.M., 1903.  
*American History.*
- SMITH, ANNA HEMENS (P).....Collamer, N. Y.  
Syracuse University, A.B., 1889.  
Radcliffe College, A.M., 1898.  
*English.*
- SMITH, HARRY LESTER (P).....Madison, N. J.  
Allegheny College, A.B., 1903.  
*Philosophy, European History.*
- SMITH, HENRY WILDS.....Jonesboro, Tenn.  
Princeton University, A.B., 1900.  
*Sociology and Statistics, Political Economy and Finance, European History.*
- SMITH, PRESERVED.....Amherst, Mass.  
Amherst College, A.B., 1901.  
Columbia University, A.M., 1902.  
*European History.*
- SMYTH, SAMUEL, Jr.....(Mhtn) New York City  
College of the City of New York, B.S., 1900.  
*Mathematics, Mechanics, Physics.*
- SNIDER, GUY EDWARD.....(Mhtn) New York City  
University of Wisconsin, B.L., 1901.  
University of Missouri, A.M., 1902.  
*Political Economy and Finance, Sociology and Statistics, Constitutional Law.*
- SNOW, WINIFRED.....Chicago, Ill.  
Minnesota University, B.L., 1899.  
*English, Education, European History.*
- SOMERS, HAROLD.....(Bklyn) New York City  
Brooklyn Polytechnic Institute, A.B., 1902.  
Columbia University, A.M., 1903.  
*Comparative Literature, Philosophy.*



- STACKPOLE, EVERETT BENNEY.....Bradford, Mass.  
Bowdoin College, A.B., 1900.  
Columbia University, A.M., 1902.  
*Political Economy and Finance, Sociology and Statistics, International Law*
- STANGELAND, CHARLES EMIL.....Minneapolis, Minn.  
Augsburg Seminary, A.B., 1898.  
University of Minnesota, A.M., 1901.  
*Political Economy and Finance, Sociology and Statistics, Constitutional Law, Administrative Law.*
- STARR, FREDERICK (P).....(Mhnt) New York City  
College of the City of New York, B.S., 1899.  
*Romance Languages and Literatures.*
- STAUNTON, HENRY CAPEN.....(Mhnt) New York City  
Columbia University, A.B., 1899; A.M., 1903.  
*Psychology, Philosophy.*
- STEBBINS, CHARLES MAURICE (P).....(Bklyn) New York City  
Amherst College, A.B., 1892; A.M., 1903.  
*English, Comparative Literature.*
- STEEVES, HARRISON ROSS.....(Mhnt) New York City  
Columbia University, A.B., 1903.  
*English, Comparative Literature.*
- STEPANEK, BEATRICE (P).....Mt. Vernon, N. Y.  
Wellesley College, A.B., 1895.  
Columbia University, A.M., 1902.  
*Greek.*
- STEPHENS, JULIA W. (P).....(Mhnt) New York City  
Vassar College, A.B., 1893.  
*Latin.*
- STEWART, MAUDE GERTRUDE.....Northfield, Minn.  
Carleton College, B.L., 1888.  
*Physics, Physical Chemistry.*
- STOCKARD, CHARLES RUPERT.....Columbus, Miss.  
Mississippi Agricultural and Mechanical College, B.S., 1899; M.S., 1902.  
*Zoology, Botany, Physiology.*
- STONE, ISABELLE.....Poughkeepsie, N. Y.  
Wellesley College, A.B., 1890.  
University of Chicago, S.M., 1896; Ph.D., 1897.  
*Physics.*
- SUZUKI, ICHINOSUKE.....Tokio, Japan  
Keiogijiku University, Tokio (equiv. A.B.), 1903.  
*Political Economy and Finance, Sociology and Statistics, International Law.*
- SWAN, EVELYN.....(Mhnt) New York City  
Columbia University, B.S., 1903.  
*European History, American History, English.*
- TAKATA, MASAKAZU.....Japan  
Keiogijiku University, Tokio (equiv. A.B.), 1897.  
*Political Economy and Finance, Sociology and Statistics, International Law.*
- TAMAKI, YOSHIO.....Tokio, Japan  
*Political Economy and Finance, Sociology and Statistics.*
- TANAKA, SHINNTARO.....Tokio, Japan  
Keiogijiku University, Tokio (equiv. A.M.), 1900.  
*Political Economy and Finance, Sociology and Statistics, Constitutional Law.*
- TAVENNER, EUGENE.....(Mhnt) New York City  
Columbia University, A.B., 1901; A.M., 1903.  
*Latin.*
- TAYLOR, JOHN WARNER.....Utica, N. Y.  
Columbia University, A.B., 1903.  
*English, Comparative Literature.*
- THALLON, IDA CARLETON.....(Mhnt) New York City  
Vassar College, A.B., 1897; A.M., 1901.  
*Classical Archaeology and Epigraphy.*

- THOMAS, JOHN WESLEY.....(Bklyn) New York City  
Dickinson College, A.B., 1881; A.M., 1884.  
Syracuse University, Ph.D., 1894.  
*Romance Languages and Literatures.*
- THOMAS, WILLYS EVERMAN.....(Mhntn) New York City  
Ohio Wesleyan University, A.B., 1897.  
Columbia University, A.M., 1903.  
*American History, European History.*
- THOMPSON, HOLLAND (P).....(Mhntn) New York City  
University of North Carolina, Ph.B., 1895.  
Columbia University, A.M., 1900.  
*Political Economy and Finance.*
- THOMPSON, RAY WALTER.....(Mhntn) New York City  
Leland Stanford, Jr., University, A.B., 1901.  
Columbia University, A.M., 1903.  
*Sociology and Statistics, Political Economy and Finance, American History.*
- THOMSON, CHARLES KENNETH (P).....Philadelphia, Pa.  
Louisiana State University, B.S., 1891; C.E., 1892.  
*Philosophy.*
- THORNDIKE, EVERETT LYNN.....Charlestown, Mass.  
Wesleyan University, A.B., 1902.  
Columbia University, A.M., 1903.  
*European History, American History, Roman Law and Comparative Jurisprudence.*
- TINTNER, BENJAMIN ABNER.....(Mhntn) New York City  
Columbia University, A.B., 1903.  
*Semitics, Philosophy, Latin.*
- TOMKIES, CHARLES DOSWELL.....Cameron, Tex.  
Columbia University, A.B., 1903.  
*English, Education.*
- TOUSSAINT, CAMILLE AUGUSTE.....Jersey City, N. J.  
Columbia University, A.B., 1903.  
*Mathematics, Astronomy, Mechanics.*
- TRAVIS, THOMAS (P).....Bloomfield, N. J.  
Wesleyan University, Ph.B., 1900.  
Union Theological Seminary, B.D. 1903.  
*Political Economy and Finance, European History.*
- TRIPP, MYRON OWEN.....Sodus, N. Y.  
Indiana University, A.B., 1901.  
*Mathematics, Mechanics.*
- TYNG, ELIZABETH MCJIMSEY.....(Mhntn) New York City  
Cornell University, A.B., 1903.  
*Latin, Greek, Roman Archaeology.*
- UFFORD, MADEL MORRIS (P).....New Haven, Conn.  
Smith College, B.L., 1899.  
*English.*
- URBAN, LIEB ROY (P).....Bernardsville, N. J.  
Princeton University, A.B., 1900.  
*Philosophy.*
- UTTER, GRACE LILLIAN.....(Bklyn) New York City  
Vassar College, A.B., 1902.  
*Latin, Greek, Education.*
- VANCE, RUFUS ADAIR (P).....(Mhntn) New York City  
Missouri Valley College, A.B., 1893.  
New York Law School, LL.B., 1902.  
Columbia University, A.M., 1903.  
*Administrative Law, Education.*
- VAN NAME, WARREN MERSERAU (P).....(Bklyn) New York City  
Columbia University, A.B., 1899.  
*English, Education.*
- VAN VLIET, JESSIE LOUISE (P).....(Mhntn) New York City  
Wellesley College, A.B., 1885.  
University of Michigan, A.M., 1894.  
*Latin.*

- VEDDER, JOHN N. .... Schenectady, N. Y.  
Union College, A.B., 1895.  
*Mathematics, Mechanics.*
- VERHOEFF, MARY (P) .... Louisville, Ky.  
Vassar College, A.B., 1895.  
*Sociology and Statistics, Political Economy and Finance.*
- VON SHOLLY, BENJAMIN RUDOLF .... (Q) New York City  
Columbia University, A.B., 1903.  
*Chemistry, Metallurgy.*
- VON UNWERTH, FRIDA (P) .... Kansas City, Mo.  
University of Chicago, Ph.B., 1903.  
*Germanics.*
- WALCOTT, GREGORY DEXTER .... Providence, R. I.  
Brown University, A.B., 1897.  
Columbia University, A.M., 1899.  
Union Theological Seminary, B.D., 1900.  
*Philosophy, Sociology and Statistics, European History.*
- WARE, JOHN CHRISTIE .... Allendale, N. J.  
Wesleyan University, Ph.B., 1903.  
*Chemistry, Metallurgy.*
- WARNER, DAVID VICTOR (P) .... Pugwash, N. S., Canada  
King's College (N. S.), A.B., 1902.  
*Sociology and Statistics, European History.*
- WARR, FRANCES LOUISE (P) .... Oneida, N. Y.  
Syracuse University, A.B., 1894.  
*European History.*
- WATSON, MARY HOLLAND (P) .... Newark, N. J.  
Radcliffe College, A.B., 1899.  
New York University, A.M., 1901.  
*English, Education.*
- WEBBER, JAMES PLAISTED .... Bath, Me.  
Bowdoin College, A.B., 1900.  
*English, Education.*
- WEED, ETHEL GEORGINE (P) .... (Bklyn) New York City  
Vassar College, A.B., 1903.  
*English, Philosophy.*
- WEEKS, MABEL FOOTE (P) .... West Medford, Mass.  
Radcliffe College, A.B., 1894.  
*Greek.*
- WELLINGTON, GRACE A. (P) .... (Mhntn) New York City  
Vassar College, A.B., 1896.  
New York University, A.M., 1900.  
*English.*
- WELLS, FREDERIC LYMAN .... (Mhntn) New York City  
Columbia University, A.B., 1903.  
*Psychology, Indo-Iranian, Germanic Philology.*
- WENDT, CORDELIA (P) .... Larchmont, N. Y.  
Columbia University, A.B., 1901.  
*English, Education.*
- WEST, WILLIAM BENJAMIN (P) .... Madison, N. J.  
Mt. Union College, A.B., 1900.  
*Sociology and Statistics.*
- WHEAT, ALBERT JOSEPH .... Mt. Vernon, Ia.  
Cornell College, B.S., 1903.  
*Chemistry, Mineralogy.*
- WHICHER, GEORGE MEASON .... (Bklyn) New York City  
Iowa College, A.B., 1882.  
*Classical Archaeology, Latin, Greek.*
- WHIFFEN, EDWIN THOMAS (P) .... (Mhntn) New York City  
Syracuse University, A.B., 1899.  
*Sociology and Statistics, Political Economy and Finance, Education.*
- WHITE, ALAIN CAMPBELL .... (Mhntn) New York City  
Harvard University, A.B., 1902.  
*Comparative Literature, Italian.*

- WHITE, GLENN WILLIAM (P).....Roselle, N. J.  
Middlebury College, A.B., 1901.  
*English.*
- WHITE, HORACE LORING.....Burlington, Vt.  
University of Maine, B.S., 1898.  
*Physiology, Physiological Chemistry, Physics.*
- WHITESIDE, DONALD GRANT.....(Mhnt) New York City  
College of the City of New York, B.S., 1897.  
New York University, A.M., 1900.  
*Germanics.*
- WIEN, FRANCIS (P).....(Mhnt) New York City  
College of the City of New York, A.B., 1900.  
*Romance Languages and Literatures, Romance Philology.*
- WILCOX, ETHEL DODGE (P).....Yonkers, N. Y.  
Columbia University, A.B., 1903.  
*Sociology and Statistics, Political Economy and Finance.*
- WILLIAMS, DANIEL JENKINS.....Genesee Depot, Wis.  
University of Wisconsin, A.B., 1899; A.M., 1902.  
Union Theological Seminary, B.D., 1903.  
*Sociology and Statistics, Political Economy and Finance, European History.*
- WILLIAMS, IRA ABRAHAM.....Ames, Ia.  
Iowa State College, B.S., 1898; M.S., 1902.  
*Geology, Metallurgy, Mining.*
- WILLIAMS, JOSEPH ALFRED.....(Mhnt) New York City  
Washington University, A.B., 1902.  
Nevada State University, A.M., 1903.  
*Philosophy, Education, Sociology and Statistics, Political Economy and Finance.*
- WILSON, JANE STEDMAN (P).....(Mhnt) New York City  
Lake Forest University, A.B., 1888.  
*Latin.*
- WILSON, STANLEY KIDDER.....(Bklyn) New York City  
Columbia University, A.B., 1902.  
Harvard University, A.M., 1903.  
*English, Philosophy.*
- WILSON, WARREN HUGH (P).....(Bklyn) New York City  
Oberlin College, A.B., 1890; A.M., 1894.  
Union Theological Seminary, B.D., 1894.  
*Sociology and Statistics, Political Economy and Finance, European History.*
- WING, DAVID LAFOREST.....Bangor, Me.  
Massachusetts Institute of Technology, B.S., 1898.  
*Sociology and Statistics, Political Economy and Finance, Administrative Law.*
- WINSLOW, ARCHIBALD SPIERS.....(Mhnt) New York City  
Columbia University, A.B., 1902.  
*Ancient History, European History, Greek.*
- WIREN, MYRA (P).....Minneapolis, Minn.  
University of Minnesota, B.L., 1900.  
Columbia University, A.M., 1902.  
*Comparative Literature.*
- WOLCOTT, FRANK HOWARD.....Boulder, Colo.  
University of Colorado, B.S., 1901.  
*Chemistry, Geology, Mineralogy.*
- WOLF, LOUISE.....(Mhnt) New York City  
*Germanics, English.*
- WOLFF, GERTRUDE L. (P).....(Mhnt) New York City  
Columbia University, A.B., 1896.  
*Latin, Roman Archaeology, Italian.*
- WOMACK, MARY DOUGLAS (P).....(Mhnt) New York City  
Adelphi College, B.S., 1899.  
*Zoology.*
- WOOD, ELEANOR DENNISTOUN.....(Mhnt) New York City  
Bryn Mawr College, A.B., 1902.  
*Philosophy, Sociology and Statistics, Political Economy and Finance.*
- WOOD, ELIZABETH CORINNE (P).....(Mhnt) New York City  
Allegheny College, A.B., 1889.  
*European History.*



- WOODHULL, MARIANNA (P).....(Mhntn) New York City  
Smith College, A.B., 1887.  
*English.*
- WOOLLEN, MARIA (P).....Indianapolis, Ind.  
Smith College, A.B., 1893.  
*Ancient History, Education.*
- WRIGHT, CHARLOTTE.....Cincinnati, O.  
University of Cincinnati, A.B., 1901.  
*European History, American History, English.*
- YAGGY, SAMUEL EDWARD.....East Moriches, N. Y.  
Cornell College, A.B., 1895.  
*Philosophy, European History, Sociology and Statistics.*
- YATSU, NAOHIDÉ.....Tokio, Japan  
Imperial University, Tokio (equiv. B.S.), 1900.  
*Zoölogy, Botany, Physiology.*
- YEN, CHIN YUNG.....Tientsin, China  
Imperial Tientsin University, (equiv. A.B.), 1901.  
*Constitutional Law, International Law, Chinese.*
- YOSHIOKA, SEIMEI (P).....Nagasaki, Japan  
Aoyama Gakkwin (equiv. A.B.), 1897.  
*Philosophy, Semitics.*
- YOUNG, DAVID KING, JR. (P).....Clinton, Tenn.  
University of Tennessee, B.S., 1899.  
*Sociology and Statistics, Psychology.*
- ZEIGER, FRANKLIN.....Montclair, N. J.  
Columbia University, A.B., 1898; A.M., 1900.  
*Philosophy.*
- ZOLLINHOFFER, SOPHIE (P).....(Bklyn) New York City  
Adelphi College, A.B., 1899.  
*English.*

### Not in Actual Residence

#### *Students on Travelling Fellowships.*

- ARNOLD, WALTER WHIPPLE (in Rome).....Rochester, N. Y.  
University of Rochester, A.B., 1898.  
Columbia University, A.M., 1900.  
*Classical Philology.*
- COSENZA, MARIO EMILIO (in Rome).....(Mhntn) New York City  
College of the City of New York, A.B., 1901.  
*Latin.*
- OSTRANDER, FREDERICK CURRY (in Paris).....Cornwall, N. Y.  
Wesleyan University, A.B., 1893.  
*Romance Languages and Literatures.*
- TUFTS, FRANK LEO (in Gottingen).....(Mhntn) New York City  
Antioch College, B.S., 1891.  
Harvard University, A.B., 1894.  
Columbia University, A.M., 1896; Ph.D., 1897.  
*Physics.*

In addition to the above, 62 candidates for the degree of Master of Arts and 32 for the degree of Doctor of Philosophy are registered under the Faculty of Philosophy, with Education as their major subject. The names of these candidates appear in the list of graduate students in Teachers College, *cf.* pp. 391-6.

### SUMMARY

STUDENTS PRIMARILY REGISTERED UNDER THESE FACULTIES.....	594
STUDENTS FROM OTHER FACULTIES OF THE UNIVERSITY, CANDI- DATES FOR THE DEGREES OF A.M., LL.M., OR PH.D.:	
From the School of Law.....	97
From the College of Physicians and Surgeons.....	24
From the Schools of Applied Science.....	15
	<hr/> 136
Total.....	730

## BARNARD COLLEGE

### TRUSTEES

Chairman \*

Mrs. A. A. ANDERSON, *Vice-Chairman*

FREDERICK S. WAIT, *Clerk*

GEORGE A. PLIMPTON, *Treasurer*

Miss HELEN DAWES BROWN

SETH LOW, LL.D.

SILAS B. BROWNELL, LL.D.

HAMILTON W. MABIE, L.H.D.

Mrs. WILLIAM C. BROWNELL

Mrs. ALFRED MEYER

Mrs. FRANK G. BRYSON

Mrs. HENRY N. MUNN

NICHOLAS MURRAY BUTLER, Ph.D.,  
LL.D.

Mrs. H. FAIRFIELD OSBORN

Mrs. GEORGE HAVEN PUTNAM

Mrs. JOSEPH H. CHOATE

Mrs. HENRY M. SANDERS

Rev. WILLIAM M. GROSVENOR, D.D.

EDWARD W. SHELDON

FREDERIC B. JENNINGS

Mrs. JAMES S. T. STRANAHAN

FRANKLIN B. LORD

Mrs. JAMES TALCOTT

### Committee on Finance

Mr. JENNINGS

Mrs. PUTNAM

Mr. LORD

Mr. SHELDON

Mrs. MEYER

Mrs. TALCOTT

The Chairman, *ex officio*

### Committee on Buildings and Grounds

Mrs. ANDERSON

Mrs. OSBORN

Mr. BUTLER

Mr. PLIMPTON

Mrs. MUNN

Mr. WAIT

The Chairman, *ex officio*

### Committee on Education

Mr. BROWNELL

Mr. MABIE

Mr. BUTLER

Mrs. SANDERS

Mr. GROSVENOR

Mr. SHELDON

The Chairman, *ex officio*

\* This office is vacant owing to the death of the Hon. Abram S. Hewitt.

## OFFICERS OF INSTRUCTION

## Officers of the Faculty

LAURA DRAKE GILL, A.M. ....	<i>Dean and ex-officio Member of the University Council</i>
MORTIMER LAMSON EARLE, Ph.D. ....	<i>Secretary</i>
JAMES HARVEY ROBINSON, Ph.D. ....	<i>Elected Delegate to the University Council (term expires 1906)</i>

## The Faculty

NICHOLAS MURRAY BUTLER, Ph.D., LL.D.,	<i>President</i>
LAURA DRAKE GILL, A.M.,	<i>Dean</i>
EDWIN R. A. SELIGMAN, Ph.D. ....	<i>Professor of Political Economy and Finance</i>
HERBERT L. OSGOOD, Ph.D. ....	<i>Professor of History</i>
EDWARD DELAVAN PERRY, Ph.D. ....	<i>Jay Professor of Greek</i>
GEORGE RICE CARPENTER, A.B. ....	<i>Professor of Rhetoric and English Composition</i>
FRANKLIN HENRY GIDDINGS, Ph.D., LL.D. ....	<i>Professor of Sociology</i>
JOHN B. CLARK, Ph.D., LL.D. ....	<i>Professor of Political Economy</i>
JAMES RIGNALL WHEELER, Ph.D. ....	<i>Professor of Greek</i>
FRANK N. COLE, Ph.D. ....	<i>Professor of Mathematics</i>
JAMES HARVEY ROBINSON, Ph.D. ....	<i>Professor of History</i>
CALVIN THOMAS, A.M. ...	<i>Gebhard Professor of the Germanic Languages and Literatures</i>
CARLO LEONARDO SPERANZA, A.M., B. ès L. ....	<i>Professor of Italian</i>
WILLIAM P. TRENT, M.A., LL.D. ....	<i>Professor of English Literature</i>
MORTIMER LAMSON EARLE, Ph.D. ....	<i>Professor of Classical Philology</i>
HERBERT GARDINER LORD, A.M. ....	<i>Professor of Philosophy</i>
NELSON GLENN MCCREA, Ph.D. ....	<i>Professor of Latin</i>
LIVINGSTON FARRAND, A.M., M.D. ....	<i>Professor of Anthropology</i>
MARSTON TAYLOR BOGERT, A.B., Ph.B. ....	<i>Adjunct Professor of Organic Chemistry</i>
BENJAMIN D. WOODWARD, Ph.D. ...	<i>Professor of the Romance Languages and Literatures</i>
HENRY E. CRAMPTON, Ph.D. ....	<i>Adjunct Professor of Zoölogy</i>
WILLIAM TENNEY BREWSTER, A.M. ....	<i>Adjunct Professor of English</i>
CHARLES KNAPP, Ph.D. ....	<i>Adjunct Professor of Classical Philology</i>
HENRY L. MOORE, Ph.D. ....	<i>Adjunct Professor of Political Economy</i>
HERBERT MAULE RICHARDS, S.D. ....	<i>Adjunct Professor of Botany</i>
MARGARET E. MALTBY, Ph.D. ....	<i>Adjunct Professor of Physics</i>

## Standing Committees of the Faculty

COMMITTEE ON CURRICULUM AND SCHEME OF ATTENDANCE: The Dean, *chairman*, Professors Earle, Crampton, Woodward, and Maltby.

COMMITTEE ON ADMISSION: Professors Earle, *chairman*, Trent, and Richards.

COMMITTEE ON SCHOLARSHIPS: The Dean, *ex-officio*, chairman, Professors Brewster and Knapp.

COMMITTEE ON HONORS: Professors Lord, chairman, Woodward, and Moore.

### Other Officers of Instruction

LOUIS AUGUSTE LOISEAUX, B.S.	<i>Instructor in the Romance Languages and Literatures</i>
WILLIAM ROBERT SHEPHERD, Ph.D.	<i>Instructor in History</i>
JAMES T. SHOTWELL, Ph.D.	<i>Instructor in History</i>
GEORGE WILLIS BOTSFORD, Ph.D.	<i>Instructor in Ancient History</i>
RUDOLF TOMBO, Sr., Ph.D.	<i>Tutor in German</i>
EDWARD KASNER, Ph.D.	<i>Tutor in Mathematics</i>
HENRY BARGY, A.M.	<i>Tutor in the Romance Languages and Literatures</i>
WILLIAM FINDLAY, Ph.D.	<i>Tutor in Mathematics</i>
ADAM LEROY JONES, Ph.D.	<i>Tutor in Philosophy</i>
WILLIAM E. KELLICOTT, Ph.B.	<i>Tutor in Zoölogy</i>
ALVIN SAUNDERS JOHNSON, Ph.D.	<i>Tutor in Economics and Social Science</i>
CLAYTON MEEKER HAMILTON, A.M.	<i>Tutor in English</i>
TRACY ELLIOT HAZEN, Ph.D.	<i>Tutor in Botany</i>
VIRGINIA C. GILDERSLEEVE, A.M.	<i>Tutor in English</i>
GERTRUDE M. HIRST, Ph.D.	<i>Tutor in Classical Philology</i>
RICHARD THAYER HOLBROOK, Ph.D.	<i>Tutor in the Romance Languages and Literatures</i>
FANNIE CORNELIA FRISBIE, A.B.	<i>Tutor in Physics</i>
ELEANOR KELLER, A.B.	<i>Lecturer in Inorganic Chemistry</i>
ELSIE CLEWS PARSONS, Ph.D.	<i>Lecturer in Sociology</i>
FREDERICK W. J. HEUSER, A.M.	<i>Lecturer in the Germanic Languages and Literatures</i>
STEPHEN A. HURLBUT, A.M.	<i>Lecturer in Classical Philology</i>
IDA H. OGILVIE, Ph.D.	<i>Lecturer in Geology</i>
MARIE REIMER, Ph.D.	<i>Lecturer in Chemistry</i>
FRANCES CAMPBELL BERKELEY, A.B.	<i>Assistant in English</i>
PAULINE HAMILTON DEDERER, A.B.	<i>Assistant in Zoölogy</i>
ALICE A. KNOX, A.B.	<i>Assistant in Botany</i>
ANNINA PERIAM, A.M.	<i>Assistant in German</i>
HELEN ISHAM, A.B.	<i>Assistant in Organic Chemistry</i>
GUSTAV HINRICHS.	<i>Conductor of Music</i>

### Officers of Administration

N. W. LIGGETT, A.B., *Bursar*

MARY F. KNOX, A.B., *Registrar*

ANNA E. H. MEYER, A.B., *Secretary*

FREDERICK A. GOETZE, *Superintendent of Buildings and Grounds*

For other officers of the University who may give instruction to students of Barnard College, consult the several departmental statements.



## GENERAL STATEMENT

In 1883 the Trustees of Columbia College offered degrees to women who should be able to pass the necessary examinations, without, however, providing instruction for them. The resulting system, called *The Collegiate Course for Women*, proved unsatisfactory to both parties. It was found necessary to provide instruction for women which should be identical with or equivalent to that provided by Columbia for men, and in 1889 Barnard College was organized with this purpose in view.

For eleven years it duplicated for women as far as possible the curriculum of Columbia College, and also registered for graduate work under the University Faculties women who held the bachelor's degree from institutions of good standing. Its instructors were members of the University staff. Examinations for entrance to Barnard College, those given in course, and those for degrees, were conducted by Columbia University. During the first three undergraduate years separate instruction was given to women; in the senior year they were admitted to certain courses in the University. Graduate students attended many courses at Columbia University under the Faculties of Philosophy and Political Science. Under the Faculty of Pure Science, lecture courses only were open at the University, laboratory work being done at Barnard College.

However, Barnard's numerical growth made inappropriate the informal arrangement for instruction which was the natural method at the outset. Its students grew to form a considerable fraction of the total number of undergraduates under the care of Columbia instructors, and the graduates registered through Barnard began to have an appreciable effect upon the University statistics. It therefore became necessary to recognize formally the status which had gradually come into existence, and accordingly an agreement was entered into by which Barnard was included in the University system. Its experience in relation to Columbia has differed widely from that of any other affiliated college in relation to its university. The gradual *rapprochement* consummated in the agreement signed in January, 1900, has proceeded without check. Barnard is an independent college for women, with a corporation and a faculty of its own, vested with all the powers commonly belonging to such bodies. At the same time, it shares the library, the instruction, and the degrees of Columbia University.

A more exact idea of the relations between Barnard College and Columbia University is given by the following *résumé* of the agreement above mentioned.

According to the agreement made January 19, 1900, between the Trustees of Columbia University and Barnard College, for the purpose of incorporating Barnard College, a college for women, in the educational system of the University, it is provided:

That the President of the University shall be, *ex officio*, President

of Barnard College and a Trustee of Barnard College. He shall preside at the meetings of the Faculty of Barnard College, and shall have general supervision and direction of the educational administration of such College, as in the other schools of the University.

That the internal administration of Barnard College shall be conducted by a Dean, who shall be appointed by the President of the University, by and with the advice and consent of the Trustees of Barnard College. In the absence of the Dean, an Acting Dean may be appointed by the President.

That Barnard College shall be represented in the University Council of Columbia University by its Dean, who shall have the right to vote in the University Council upon all questions. The Faculty of Barnard College shall consist of the President, the Dean, and all the professors on the staff of the University who give instruction in Barnard College.

That Barnard College shall provide for and maintain such officers of instruction as may, from time to time, be agreed on. Such officers shall be nominated by the Dean of Barnard College, with the approval of the Trustees of Barnard College and of the President of the University, and shall be appointed and reappointed by the University according to its custom. Their standing shall be the same in all respects as that of other like officers in the University. For all services rendered in the University by officers so appointed an equivalent amount of service shall be rendered in Barnard College by other officers of the University of like grade, as may be determined from time to time, with the consent of the officers concerned, by the Dean of the College and the President of the University.

That members of the Faculty of Barnard College may be either men or women.

That, on and after July 1, 1904, all of the instruction for women leading to the degree of Bachelor of Arts shall be given separately in Barnard College. Barnard College will assume as rapidly as possible all of the instruction for women in the senior year, without regard to the time limit contained in this section, and undertakes to maintain every professorship established at its instance, so long as the services of the incumbent thereof or an equivalent therefor shall be rendered in Barnard College; and when Barnard College has adequately provided for its undergraduate work, it will, as its means allow, establish additional professorships in the University, upon foundations providing for courses which shall be open to men and women, to the end that opportunities for higher education may be enlarged for both men and women.

That the University will accept women who have taken their first degree on the same terms as men, as students of the University, and as candidates for the degrees of Master of Arts and Doctor of Philosophy under the Faculties of Philosophy, Political Science, and Pure Science, in such courses as have been or may be designated by these Faculties, with the consent of those delivering the courses, and will make suitable provision for the oversight of such women. The Uni-

versity will confer the degree of Bachelor of Arts upon the students of Barnard College who shall have satisfactorily fulfilled in Barnard College the requirements of the University Statutes for that degree. The courses in Barnard College leading to the degree of Bachelor of Arts shall be determined and administered by its own Faculty, and all examinations for admission to Barnard College and in course shall be conducted under the authority of the Faculty of Barnard College. The diploma shall be signed by the President of the University and by the Dean of Barnard College. The degree of Bachelor of Arts conferred upon the graduates of Barnard College shall be maintained at all times as a degree of equal value with the degree of Bachelor of Arts conferred upon the graduates of Columbia College. The equivalency of the two degrees shall be maintained in such manner as the University Council may prescribe.

That, so long as this agreement is in force, Barnard College shall grant no degrees. It shall retain the right to grant certificates to students not candidates for a degree, and it shall exercise all other corporate rights and powers which are not delegated to the University by this agreement. But this agreement shall not be deemed a surrender by Barnard College of any powers conferred upon it by charter.

That Barnard College shall retain its separate corporate organization, and that the Trustees of Barnard College shall continue to provide for the financial support thereof.

That the library of the University shall be open to all women students of the University and of Barnard College upon the same terms as to men.

By the terms of an agreement between Columbia University and Barnard and Teachers Colleges, students of Teachers College are permitted to attend courses in Barnard College. This institution offers reciprocal advantages to the students of Barnard College. Courses which are counted toward a Teachers College diploma and are open to seniors in Columbia College are also open to seniors of Barnard College.

### ADMISSION

The Committee on Admission has charge of everything relating to this subject.

Candidates for admission to the freshman class must, at the time of entrance, be at least fifteen years of age; and for admission to advanced standing a corresponding increase of age is required; but exceptions to this rule may be made when, in the opinion of the Committee on Admission, there are sufficient reasons to justify them.

Every candidate must, before admission, present a certificate of good moral character from her last teacher, or from some properly qualified citizen, and students from other institutions must bring certificates of honorable dismissal.

Every candidate for admission to Barnard College, either to the freshman class or to a special course, is required at the entrance examinations to offer subjects amounting to fifteen (15) points<sup>1</sup> as indicated below.

The candidate *must* offer

English (page 197).....	counting 3 points
Elementary Latin (page 205).....	" 4 "
Elementary Mathematics (page 206).....	" 3 "

The candidate may offer any of the following subjects without other restriction than that to offer an advanced subject will involve offering the corresponding elementary subject as well:

Elementary Greek (page 203).....	counting 3 points
Elementary History (page 204).....	" 2 "
Intermediate French (page 200).....	" 1 point
Intermediate German (page 202).....	" 1 "
<sup>2</sup> Advanced History (page 204).....	" 1 "
Advanced Mathematics (page 207).....	" 1 "
<sup>2</sup> Advanced Latin (page 206).....	" 1 "
<sup>2</sup> Advanced Greek (page 203).....	" 1 "
<sup>2</sup> Advanced Physics (page 208).....	" 1 "

For the special regulations concerning Advanced French and Advanced German, see pages 200 and 203 respectively.

The candidate may offer not more than 4 points in all from the three subjects following:

Elementary French (page 199).....	counting 2 points
Elementary German (page 201).....	" 2 "
Spanish (page 208).....	" 2 "

The candidate may offer not more than 2 points in all from the five subjects following:

Elementary Physics (page 207).....	counting 1 point
Chemistry (page 196).....	" 1 "
Botany (page 195).....	" 1 "
Physiography (page 208).....	" 1 "
<sup>2</sup> Zoölogy (page 209).....	" 1 "

The definitions of the requirements in each subject as well as the regulations governing the filing of applications for entrance examinations, the examination fee, the division of examinations, and the places of examination are the same at Barnard College as at Columbia. A time-schedule of the examinations may be obtained from the Secretary of the University.

<sup>1</sup>The relative value of subjects is expressed in *points* according to the time required for adequate preparation in them. A point as here used represents a course of five periods weekly throughout an academic year of the preparatory school.

<sup>2</sup> Candidates will be examined in this subject only in September.



### Report of Entrance Examinations

The Committee on Admission will report to the Dean after the conclusion of the entrance examinations in June the names of those candidates who, having passed a satisfactory examination, may be admitted with or without conditions, and of those who must present themselves for re-examination in September.

The Committee on Admission will report to the Dean, not later than one week after the conclusion of the entrance examinations in September, the names of those candidates who, upon a final showing, may be admitted with or without conditions, and of those who have been rejected.

### Entrance Conditions

A student is admitted to the freshman class on probation when the total number of points received by her in the entrance examinations amounts to eleven (11) out of the total required fifteen (15) points; but this rule is subject to the proviso that the four (4) points of deficiency do not include the whole of English, Elementary Latin, or Elementary Mathematics. A total failure in any one of these subjects will be regarded as disqualifying a candidate for admission.

Students admitted conditionally to the freshman class at the beginning of the academic year will be held under probation until the end of the first half-year.

### Admission to Advanced Standing

Candidates for admission from other colleges, and students who desire to be admitted to advanced standing on examination, must make application in writing to the Barnard College Committee on Admission. Proper blanks for the purpose may be obtained from the Registrar. The application should be made at least one week before the first day of the September entrance examinations.

Every candidate for admission to advanced standing must show that she has attained proficiency in the equivalent of:

1. The requirements for admission to the freshman class.
2. All the prescribed studies already pursued by the class to which she seeks admission;
3. As many elective studies as she would have pursued if she had entered the class at the beginning of the freshman year.

A candidate may be admitted notwithstanding deficiencies in some of these studies, but no candidate will be recommended for the A.B. degree until she shall have brought all her studies up to the point required for that degree.

Every candidate from another college is required to furnish (1) official statements of her record in her various college studies, (2) letters or other evidence showing the opinion of her instructors in regard to her scholarship and character, (3) an honorable dismissal from the college which she is leaving, and (4) a catalogue or announcement of

the college that she leaves in which are plainly marked every requirement for admission and every course of instruction for which she has received credit.

No applicant will be allowed to enter the senior class as a candidate for the degree of Bachelor of Arts after October 15 in any year.

### SPECIAL STUDENTS

Special courses of study are offered by the College to young women of proper age and character who wish, without reference to any degree, to make a serious study of any subject or group of subjects. This provision, however, is not designed for students who would be unable, because of defective preparation, to secure admission to the freshman class. Special students must have covered in full the fifteen (15) points of admission requirements. Applications for admission should be made at least one week before the first day of the entrance examinations. Proper blanks for this purpose may be obtained from the Registrar.

Once admitted to the College special students will be allowed to select their own courses of study subject to the general approval of the Dean and to the particular approval, for each course selected, of the head of the department in which the course is given.

Each student is required to pursue in any year courses amounting to at least (8) points, unless excused by the Dean for reasons of special weight.

*Except for reasons of weight, satisfactory to the Committee on Admission, no one will be received as a special student who is less than eighteen years of age, or who has, within ten months of the time of her application, been rejected as a regular student, or has, within that period, become deficient as a regular student.*

In the courses which they severally pursue special students will be held to the observance of the same regulations as to attendance, examination, proficiency, and deficiency as regular students. They will, therefore, in the event of a change of plan, be credited with such of their courses as may coincide with the courses leading to a degree.

### Students of Music

Admission may be obtained to courses in music without examination in any subject except English. The written authorization of the Director of the Department of Music must be presented by the candidate to the Registrar at the time of registration.

Students of music are not admitted to courses in other departments of the College unless they have satisfied the full entrance requirements.

### SCHOLARSHIPS AND PRIZES

There are altogether thirty-eight scholarships and two special funds for the aid of needy and deserving students. The value of each scholarship, unless otherwise stated, is \$150 annually.

The scholarships are of two sorts, competitive and non-competitive. The former are awarded for excellence in entrance examinations. The latter on the nomination of the Committee on Scholarships of the Faculty, to worthy students who have passed at least one year in college. They are held, unless otherwise stated, *for one year only*.

If a student fail to maintain a grade of at least C in all courses which she pursues or if she commit a breach of good order, she shall forfeit her scholarship.

For a detailed statement of the conditions under which the scholarships are awarded, the regulations regarding applications, and the like, the *Announcement of Barnard College* should be consulted. This may be obtained without charge upon application to the Secretary of Barnard College.

The following is a summary of the scholarships:

### Competitive Scholarships

#### 1. *Open to all Students:*

Trustees' Competitive Scholarship..... 1

Awarded by the Board of Trustees to the student who, in June, passes the best complete entrance examination.

Jessie Kaufmann Scholarship..... 1

Established in 1902 by Mr. Julius Kaufmann in memory of his daughter, Jessie Kaufmann.

#### 2. *Open to Particular Students:*

Brooklyn Scholarships..... 12

Awarded under same conditions as apply to Brooklyn Scholarships in Columbia College, see page 41.

Lucille Pulitzer Scholarships..... 3

Founded by Mr. Joseph Pulitzer in memory of his daughter, Lucille Pulitzer. They are awarded to undergraduate students entering the College from the City of New York. They may be held for the first three years of the college course only.

### Non-competitive Scholarships

These, subject to the general regulations for scholarships, are as follows:

#### 1. *Open to all Students:*

Student Scholarships..... 12

Twelve in number, given by the Committee of the Trustees on Scholarships. These are supported by the income of a permanent fund that is being established and that at present amounts to \$9580, and of the Arthur Brooks Fund (see below). The remainder is supplied by annual provision.

Ella Weed Scholarship..... 1

Founded by the pupils of Miss Anne Brown's School in memory of Miss Ella Weed.

Veltin School Scholarship.....	I
Given by the alumnae of Mlle. Veltin's School.	
Jennie B. Clarkson Scholarship.....	I
Founded in 1898 by Mrs. W. R. Clarkson.	
Emily James Smith Scholarship.....	I
Founded in 1899 by Miss Emily H. Bourne in honor of Miss Smith, then Dean of Barnard College.	
Anna E. Barnard Scholarship.....	I
Founded in 1899 by Miss Emily H. Bourne in honor of Mrs. John <sup>d</sup> G. Barnard.	
Brearley School Scholarship.....	I
Founded in 1899 by pupils and former pupils of the Brear- ley School.	
Eliza Taylor Chisholm Memorial Scholarship.....	I
Founded in 1901 by the Alumnae Association of Miss Chisholm's School.	
Graham School Scholarship.....	I
Given in 1901 by the Graham Alumnae Association.	

2. *Open to Particular Students:*

Mrs. Donald McLean Scholarship.....	I
Given in 1898 by the New York Chapter of the Daughters of the American Revolution, to a deserving student who agrees to pursue the study of history (chiefly that of the United States) continuously throughout her college course.	

3. *Special Funds for the Aid of Needy and Deserving Students:*

Arthur Brooks Fund.

A fund of \$5000 given in 1897 by Miss Olivia E. Phelps Stokes as a memorial of the Reverend Arthur Brooks, D.D. This fund is at present applied to the maintenance of the Student Scholarships.

Fiske Scholarship Fund.

A sum of \$240, the income of a fund given by Mrs. Martha T. Fiske-Collord, placed at the disposal of the Dean of Barnard College.

**Herrman Botanical Prize**

A prize of \$50, founded by Mrs. Esther Herrman, will be awarded annually to the most proficient undergraduate student in botany.

**Kohn Mathematical Prize**

A prize of \$50, founded by Mrs. S. H. Kohn, is awarded annually to a senior for excellence in mathematics. Competitors for this prize must have pursued mathematics continuously during their college course.

**Bunner Medal**

By the terms of its establishment, the A. C. Bunner gold medal (page 38) is open for competition to students in Barnard College.



## REGISTER OF STUDENTS

### SENIOR CLASS

ADAMS, JESSIE BLANCHE.....	(Mhtn) New York City
ADEY, MILDRED HUNT.....	(Mhtn) New York City
APPELL, EDITH MAY.....	Mt. Vernon, N. Y.
APPLEGATE, CLARA MARGUERITE.....	Newburgh, N. Y.
ARNAUD, LUCY GIULIA.....	(Bklyn) New York City
BACON, MARJORIE KATE.....	(Bklyn) New York City
BARKER, SADIE ROSE.....	Irvington, N. Y.
BEECKMAN, FLORENCE LOUISE.....	(Mhtn) New York City
BEIFELD, MINNIE MARGARET.....	(Mhtn) New York City
BOULGER, MINNIE RANDOLPH.....	(Mhtn) New York City
BUCK, HELEN GERTRUDE.....	Rochester, N. Y.
BUSHONG, ELSIE GRACE.....	Reading, Pa.
BUTTS, EDITH.....	Hoboken, N. J.
CAHEN, ELFIE JULIA.....	(Mhtn) New York City
CAMPBELL, FLORA.....	Plainfield, N. J.
CAPLES, EDITH RICHARDS (Mrs. B. H. CAPLES).....	(Mhtn) New York City
CLAFFY, MARGARET LORETTA CHARLES.....	(Bklyn) New York City
COMPTON, MABEL GRACE.....	(Bklyn) New York City
CURTIS, SARAH THEODORA.....	(Mhtn) New York City
DENTON, MABEL.....	Paterson, N. J.
DOTY, KATHARINE SWIFT.....	(Mhtn) New York City
EGLESTON, JEAN DUNBAR.....	Elizabeth, N. J.
ELTING, HELEN STICKNEY.....	Yonkers, N. Y.
EMBURY, LUCY BATES.....	Englewood, N. J.
ENRIGHT, EMMA MULFORD.....	Freehold, N. J.
ERSKINE, HELEN.....	(Mhtn) New York City
FISCHER, HELENA MARSHALL.....	(Mhtn) New York City
FOUNTAIN, CHARLOTTE BOYD.....	Jersey City, N. J.
FROTHINGHAM, MARY KATHRYN.....	(Mhtn) New York City
GALLERT, DORIS PAULA.....	(Mhtn) New York City
GRANGER, EDITH ADELL.....	Mt. Vernon, N. Y.
HAAS, EDITH JOAN.....	(Mhtn) New York City
HASKELL, JULIANA (Mrs. S. H. HASKELL).....	(Mhtn) New York City
HAWES, JANE JEWETT.....	New Rochelle, N. Y.
HAYDOCK, AMELIA.....	(Mhtn) New York City
HILL, HARRIET NEWELL.....	(Mhtn) New York City
HIRSCH, SELMA HELEN.....	(Mhtn) New York City
HIRSHBACH, HELEN.....	(Mhtn) New York City
HOYT, JESSIE FENTON.....	(Mhtn) New York City
HUBBARD, FLORENCE EDDY.....	(Bklyn) New York City
HUGHAN, ETHEL MARJORIE.....	(Bklyn) New York City
HUNT, MARTHA MARGUERITA.....	Jersey City, N. J.
JOHNSTON, ROSE.....	Middletown, O.
LEERS, HILMA.....	Paterson, N. J.
LEVY, GRACE.....	(Mhtn) New York City
LEWIS, IDA ETHEL.....	(Mhtn) New York City

LEXOW, CAROLINE.....	Nyack, N. Y.
LICHTEN, DORA ELSIE.....	(Mhtn) New York City
LOOMIS, JEAN HERRING.....	(Mhtn) New York City
LYON, ROMOLA.....	(Mhtn) New York City
MCCORMICK, ROSE MARIE.....	Perth Amboy, N. J.
MCLEAN, ELIZABETH.....	Jersey City, N. J.
METCALFE, LIZZETTE MAY.....	(Mhtn) New York City
MILLER, LENA ADELE.....	White Plains, N. Y.
MILLER, MILDRED ELSEGOOD.....	(Bklyn) New York City
MOEN, MARY WARREN.....	(Mhtn) New York City
MORGAN, CHARLOTTE ELIZABETH.....	(Bklyn) New York City
NEVINS, DORA RUSSELL.....	(Bklyn) New York City
NUTT, RACHEL EVANS.....	Cliffside, N. J.
PARKER, MAY APPLETON.....	(Mhtn) New York City
PEIFFER, ELLA REBEKAH.....	Newville, Pa.
PETERS, LOUISE EDGAR.....	Englewood, N. J.
POPPER, HILDA.....	(Mhtn) New York City
RIX, MARY LOUISE.....	Lebanon, N. H.
SEYMOUR, JOSEPHINE.....	(Bklyn) New York City
SHELLEY, SARAH ELLEN.....	Mechanicsburg, Pa.
STERN, RUTH MARJORIE.....	(Mhtn) New York City
STONE, MARGARET HOLMES.....	(Mhtn) New York City
SWAN, BESSIE LOUISE.....	Mt. Vernon, N. Y.
THOMAS, MARTHA ELLEN.....	Yonkers, N. Y.
TRIER, BETTY.....	(Bklyn) New York City
VAN INGEN, EDITH GIFFORD.....	(Bklyn) New York City
VAN SLYKE, ALIDA MARGARET.....	New Baltimore, N. Y.
WARING, ANNA TALLMAN.....	Piermont, N. Y.
WERTS, HARRIET ESTELLE.....	Jersey City, N. J.
WICK, JEANNETTE.....	(Q) New York City
YUDELSON, SOPHIE.....	(Mhtn) New York City
Senior Class.....	77

## JUNIOR CLASS

BASSETT, ELIZABETH WADDINGTON.....	(Mhtn) New York City
BEERS, FLORENCE EVELYN.....	(Q) New York City
BELL, FLORENCE EMILY.....	(Q) New York City
BENNETT, GEORGINA GRACE.....	Hackensack, N. J.
BIGGIN, FLORENCE IRENE.....	Middletown, N. Y.
BOORMAN, ELIZABETH STANFORD SAYRE.....	(Mhtn) New York City
BOSS, ANNA MARIE.....	(Mhtn) New York City
BOVARD, LUELLE LILLIAN.....	Port Chester, N. Y.
BROWN, ANN ELIZA.....	(R) New York City
BUCKINGHAM, ELIZABETH.....	(Mhtn) New York City
BYRNE, MARGARET CECILIA.....	(Bklyn) New York City
CALHOUN, EMMA SHAW.....	(Mhtn) New York City
CATHCART, GERTRUDE LOUISE.....	Plainfield, N. J.
COHEN, HELEN NESSA.....	(Mhtn) New York City
CONOVER, GRACE MORRELLE.....	(Mhtn) New York City
COOLEY, HELEN WILKING.....	(Mhtn) New York City
DAY, ELIZABETH.....	(Mhtn) New York City
DIETZ, EDITH AUGUSTA.....	(Mhtn) New York City
DONNELLY, MARGUERITE KAUGHRAN.....	(Mhtn) New York City
DORRIAN, CECIL INSLEE.....	(Mhtn) New York City
DRAPER, ALICE OLIN.....	(Mhtn) New York City
DURANT, AGNES LACY.....	(Mhtn) New York City
EHRLICH, ELSIE.....	(Mhtn) New York City
FARMER, MILDRED BLANCHE.....	New Rochelle, N. Y.

FARRELLY, GRACE MARIE.....	(Mhtn) New York City
FETTRECH, EDITH BERRELL.....	(Mhtn) New York City
FISHER, ANNIE FULLER.....	(Mhtn) New York City
FLETCHER, SALLIE FAULKNER.....	(Bklyn) New York City
FORMAN, ANITA GRACE.....	(Mhtn) New York City
FRANKLIN, MARION.....	(Mhtn) New York City
GOODYEAR, KATHARINE FRANCIS (Mrs. N. GOODYEAR).....	(Mhtn) New York City
GRAY, MARY GOULD.....	(Bklyn) New York City
GREENE, ANNE DUNKIN.....	(Mhtn) New York City
HANDY, EDITH BERKELEY.....	(R) New York City
HEIDENHEIMER, ALYNE BENDIT.....	(Mhtn) New York City
HENDRICKS, ETHEL.....	(Mhtn) New York City
HEYMAN, BLANCHE.....	(Mhtn) New York City
HILL, AMELIA LEAVITT.....	(Mhtn) New York City
HOCHHEIMER, HELEN ALICE.....	(Mhtn) New York City
HOFFMAN, MARGIE ETHEL.....	(Bklyn) New York City
HOYT, SARAH FENTON.....	(Mhtn) New York City
HUTCHINSON, EMILIE JOSEPHINE.....	(Bklyn) New York City
JOHNSTON, MARIE LOUISE.....	(Mhtn) New York City
KAPLAN, CARRIE.....	(Mhtn) New York City
KENNEDY, ANNA JOSEPHINE.....	(Bklyn) New York City
LEE, MARY DAY.....	(Mhtn) New York City
LELAND, ABBY PORTER.....	Mechanicville, N. Y.
LELAND, FANNIBELLE.....	(Mhtn) New York City
LEVY, EDWINA LEAH.....	(Mhtn) New York City
LOCK, MARY.....	Plainfield, N. J.
LYALL, PAMELA WARREN.....	Summit, N. J.
MATHEWS, LAURA ELIZABETH.....	Newark, N. J.
MEYER, FLORENCE ALMA.....	Yonkers, N. Y.
MORGENTHAU, FLORENCE JESSIE.....	(Mhtn) New York City
MOTT, ISABELLE.....	(Mhtn) New York City
MUNROE, ELEANORA LOUISE.....	(Mhtn) New York City
MURRAY, LILY SYLVESTER.....	Montclair, N. J.
NYE, FLORENCE ISABELLE.....	(Mhtn) New York City
PALLISER, HELEN LETITIA.....	Dobbs Ferry, N. Y.
PARKER, LAURA HILLIER.....	(Mhtn) New York City
PURDON, FRANCES HOPE.....	(Mhtn) New York City
REEDER, RUTH ANGELINE.....	Hastings, N. Y.
REILEY, ANNA CAMPBELL.....	North Tarrytown, N. Y.
REITLINGER, BLANCHE HORTENSE.....	(Mhtn) New York City
RHEINSTEIN, ALICE MARION.....	(Mhtn) New York City
SCHULTZ, NINA.....	(Mhtn) New York City
SCOTT, BESSIE TRIMBLE.....	Passaic, N. J.
SCOTT, IZORA.....	(Mhtn) New York City
SMITH, ALICE VAN WOERT.....	(Mhtn) New York City
SMITH, MARGUERITE.....	(Mhtn) New York City
SNYDER, ARRIETTA.....	Newburgh, N. Y.
SOLOMON, CHARLOTTE LOUISE.....	Syracuse, N. Y.
SPARKMAN, LYDIA HOLT.....	Paterson, N. J.
STABER, HILDA LOUISE.....	(Bklyn) New York City
STAPLER, MARTHA GAUSE.....	(Mhtn) New York City
TALBOT, ABIGAIL ADAMS.....	(Q) New York City
TATTERSHALL, ANNA SARAH.....	White Haven, Pa.
THOMPSON, MARTHA.....	(Mhtn) New York City
THORP, ANNA FRANCES MURIEL.....	Paterson, N. J.
WELLE, EDITH.....	Paterson, N. J.
WILCOX, HARRIET LESLIE.....	Yonkers, N. Y.
Junior Class.....	81

## SOPHOMORE CLASS

BLACKBURN, LOUISA POWELL.....	Baltimore, Md.
BOYD, VIRGINIA TUCKER.....	(Mhtn) New York City
BRADFORD, ELIZABETH ELLIOT.....	Columbus, O.
BRAUTIGAM, ELISABETH RANDALL.....	East Orange, N. J.
BREWSTER, ALICE DOROTHY.....	(Mhtn) New York City
BROWN, MARJORIE FERGUSON.....	(Mhtn) New York City
BROWNE, MABEL EMMA.....	(Bklyn) New York City
CARPENTER, LULU JANE.....	Port Chester, N. Y.
CHAPMAN, EMMA AUGUSTA.....	Jersey City, N. J.
CHIPPERFIELD, FAITH.....	(Mhtn) New York City
CONDIT, JESSIE PARSONS.....	East Orange, N. J.
DARLING, NELLIE OAKES.....	Stony Brook, L. I.
DONIGAN, ELIZABETH AMANDA.....	Mt. Vernon, N. Y.
DORSETT, LOVENIA ADELE.....	(Q) New York City
EASTMAN, LUCY PUTNAM.....	(Mhtn) New York City
ERNST, MATILDA.....	Huntington, L. I.
ERSTEIN, ROSE.....	(Mhtn) New York City
EVANS, ELIZABETH GRACE.....	(Mhtn) New York City
FAIRCHILD, RUTH DEANE.....	New Britain, Conn.
FONTAINE, MARIE LOUISE.....	(Mhtn) New York City
FRANK, EDNA EMILIE.....	(Mhtn) New York City
FRANKFIELD, HELEN.....	(Mhtn) New York City
FRICKE, WILLA MAY.....	(Mhtn) New York City
FRIED, ROSA.....	(Mhtn) New York City
GRABAU, MARY ANTIN (Mts. A. W. GRABAU).....	(Mhtn) New York City
HALL, CAROLINE DUMONT.....	Mt. Vernon, N. Y.
HART, ADELAIDE.....	(Mhtn) New York City
HASKELL, ALICE.....	Providence, R. I.
HAYNES, JESSIE ELIZABETH.....	(Mhtn) New York City
HEIMANN, EDITH.....	(Mhtn) New York City
HERRMANN, SENTA.....	(Mhtn) New York City
HOLDEN, ELEANOR SANFORD.....	Madison, N. J.
HOWARD, LILLIAN ALICE CATHERINE.....	(B) New York City
JAMES, BERTHA CLARKSON.....	Rahway, N. J.
KNOX, ETHEL MAY.....	(Mhtn) New York City
KOHUT, ELSIE.....	(Mhtn) New York City
LEE, ANNIE.....	Poland, O.
LEWIS, BESSIE LOUISE.....	Mt. Vernon, N. Y.
LILIENTHAL, FLORENCE.....	(Mhtn) New York City
LOEW, FREDERICKA.....	(Mhtn) New York City
McKEE, ELSA DU BOIS.....	(Mhtn) New York City
MACCOLL, GRACE BEATRICE.....	(Mhtn) New York City
MACCOLL, JEANNETTE.....	(Mhtn) New York City
MARKS, BLANCHE FLORENCE.....	(Mhtn) New York City
MAYER, FANNY.....	(Mhtn) New York City
MAYO-SMITH, LUCIE.....	(Mhtn) New York City
MORGENTHAU, BEATRICE FRANCES.....	(Mhtn) New York City
MURTHA, MARY WASHBURN.....	(Mhtn) New York City
NEWLAND, ANNA MAY.....	(Mhtn) New York City
NIES, MINNIE ANTOINETTE.....	Paterson, N. J.
PADDOCK, JOSEPHINE.....	(Mhtn) New York City
PLATE, HAZEL HUDNALL.....	(Mhtn) New York City
POST, CATHARINE MARY.....	(Q) New York City
POST, ELIZABETH SMITH.....	(Q) New York City
PURDUE, OLIVE CONDIT.....	East Orange, N. J.
RAE, ANNE MUTCH.....	(Mhtn) New York City
RALPH, VIRGINIA.....	(Mhtn) New York City



REANEY, ELLA JANE.....	(Mhtn) New York City
REEDER, IRENE MAY.....	Hastings, N. Y.
ROHR, MADELINE DOROTHEA.....	(B) New York City
RUSSELL, ISABELLE KATHARINE.....	(Bklyn) New York City
SCHLAGETER, FLORENCE.....	Paterson, N. J.
SCHMIDT, CLARA HELENE.....	Mt. Vernon, N. Y.
SEELIGMAN, IRMA SCOTT.....	(Mhtn) New York City
SIMONS, MARION LODER.....	Port Chester, N. Y.
SLATOR, HATTIE.....	(R) New York City
SOMBORN, EDITH.....	(Mhtn) New York City
STIEBRITZ, ELSIE.....	(Q) New York City
STITT, EDNA WALMSLEY.....	(Mhtn) New York City
TAYLOR, VIRGINIA.....	East Orange, N. J.
TOMS, ELIZABETH IVERSON.....	(Mhtn) New York City
WATSON, ETHEL AGNES.....	Hackensack, N. J.
WELLS, MILDRED ABLE.....	East Orange, N. J.
WILLIAMS, HELEN ISABEL.....	(B) New York City
Sophomore Class.....	74

## FRESHMAN CLASS

ADAMS, IRENE BENNETT.....	Mt. Kisco, N. Y.
ALTHAUS, AMALIE LOUISE.....	(B) New York City
ARMSTRONG, LAURA JULIA.....	New Rochelle, N. Y.
AUERBACH, EVA FANNY.....	(Mhtn) New York City
BAILEY, MARGARET HART.....	(Mhtn) New York City
BATTELL, HANNAH MANSFIELD.....	(Bklyn) New York City
BERNHIMER, GRACE LILIAN.....	(Mhtn) New York City
BERNKOPF, BEATRICE MOLLY.....	Wellsboro, Pa.
BOOTE, MABEL LOUISE.....	Yonkers, N. Y.
BRAND, JOSEPHINE.....	(Mhtn) New York City
BURCHENAL, EMMA HOWELLS.....	(Mhtn) New York City
BURR, EMILY THORP STEDMAN.....	Greenwich, Conn.
BUSHONG, ALICE MARGARET.....	(Bklyn) New York City
CAMPBELL, CLEMENTINE ELIZABETH.....	(Mhtn) New York City
CANNON, GERTRUDE LOUISE.....	(B) New York City
CARROLL, ANNE.....	Warwick, N. Y.
CHADWELL, ELIZABETH WILLARD.....	(Mhtn) New York City
COHEN, AMELIA.....	(Mhtn) New York City
COLBY, SABRA CARRINGTON.....	(Mhtn) New York City
COLE, EMMA CORNELIA.....	(Mhtn) New York City
COLE, EVANGELINE.....	Sea Cliff, N. Y.
DISBROW, JEAN.....	(Mhtn) New York City
EDLER, FRIDA EMMA.....	(Q) New York City
ERNST, AGNES ELIZABETH.....	(B) New York City
FOSHAY, FLORENCE ELIZABETH.....	Port Chester, N. Y.
FRAME, MARIE TERESA.....	Mt. Vernon, N. Y.
FREED, JULIA HUELAT.....	(Mhtn) New York City
FURTH, FLORENCE BELLE.....	(Mhtn) New York City
GANS, MADELAINE BERNHEIM.....	(Mhtn) New York City
GARDINER, CARA LESLIE.....	(Mhtn) New York City
GARRISON, MARJORIE.....	Yonkers, N. Y.
GELBACH, MARIE.....	Hoboken, N. J.
GIBSON, CATHERINE BYRNE.....	Yonkers, N. Y.
GOEDKOOP, ANNIE ELIZABETH.....	Paterson, N. J.
GOODHARDT, HELEN.....	(Mhtn) New York City
GORDON, FLORENCE.....	Guttenberg, N. J.
GRANT, LUCILE.....	Stamford, N. Y.
GREEN, EDNA RAYMOND.....	Princeton, N. J.
GREENWOOD, ELEANOR MAUD.....	(Mhtn) New York City

HARVITT, HELEN JOSEPHINE.....	(Bklyn) New York City
HAYS, ALMA LAURA.....	(Mhtn) New York City
HECHT, BLANCHE.....	Rochester, N. Y.
HELLIN, LILIAN.....	(Mhtn) New York City
HENDERSON, HAZEL.....	(Bklyn) New York City
HERZFELD, BEATRICE FELICIA.....	(Mhtn) New York City
HILBORN, JENNIE.....	(Mhtn) New York City
HORAN, MABEL EMILY.....	(Mhtn) New York City
HURTY, KATHLEEN ELIZABETH.....	Pelham, N. Y.
ISRAEL, MARGUERITE BAER.....	(Mhtn) New York City
JOHNSON, LUCETTA PITNEY.....	Morristown, N. J.
KEENEY, SARAH.....	(Mhtn) New York City
KOHN, IRENE CONSTANCE.....	(Mhtn) New York City
LAY, SARA EMMA.....	(Mhtn) New York City
LEETE, ADALINE ROSELLA.....	Oneida, N. Y.
LIEBMANN, CLARA (Mrs. C. LIEBMANN).....	(Mhtn) New York City
LORD, MARY ELIZABETH.....	Allston, Mass.
McLANE, FANNIE MOULTON.....	(Mhtn) New York City
McLAUGHLIN, PIERINA.....	(Mhtn) New York City
MACDONALD, MABEL PERKINS.....	(Mhtn) New York City
MacEWAN, EMILY LAMONT.....	Jersey City, N. J.
MARKLEY, EILEEN HUGHES.....	(Mhtn) New York City
MARRIN, MARIE JOSEPHINE AINSWORTH.....	(Mhtn) New York City
MORITZ, BEULAH.....	Montgomery, Ala.
ODENCRANTZ, LOUISE CHRISTINA.....	(Mhtn) New York City
OESTERLEIN, CHARLOTTE ROSE.....	(Mhtn) New York City
PERKINS, ELSIE MILLICENT.....	Port Chester, N. Y.
PERRY, HELEN CUSHING.....	(Mhtn) New York City
POINTS, JULIET STUART.....	Jersey City, N. J.
PRATT, JOSEPHINE SOUTHWORTH.....	New Rochelle, N. Y.
PRICE, NINA MARGUERITE.....	(Mhtn) New York City
RAPP, KATHERINE LOUISE.....	(Mhtn) New York City
REARDON, MARY CATHERINE RUTH.....	Rye, N. Y.
RICE, JESSAMINE BOZEMAN.....	Montgomery, Ala.
RICH, MABEL ELIZABETH WEISS.....	Mt. Vernon, N. Y.
ROSEMON, ETHEL MAY.....	(Bklyn) New York City
ROSSBACH, IRMA.....	(Mhtn) New York City
RUSK, ELIZABETH.....	St. Joseph, Mo.
SCHACHTEL, ELSIE.....	(Mhtn) New York City
SCHRAMM, ETHEL BELL.....	(Mhtn) New York City
SHINN, NATALIE IDA.....	Pelham Manor, N. Y.
SHONINGER, HELEN.....	(Mhtn) New York City
SIMON, JEANNETTE.....	(Mhtn) New York City
SMITH, CLARA ELIZABETH.....	(Q) New York City
STAPP, FLORENCE MAY.....	Dunkirk, N. Y.
STEARN, MABEL FRYDA.....	(Mhtn) New York City
STRAUSS, CONSTANCE RECKENDORFER.....	(Mhtn) New York City
TIBBITS, MARY EDLA.....	(Q) New York City
TOWNSEND, KATHARINE.....	(Mhtn) New York City
TRACY, HELEN ABBIE.....	Rockville Centre, N. Y.
TREDWELL, ELIZABETH ALDEN SEABURY TREDWELL.....	(Mhtn) New York City
TRUE, DOROTHY.....	(Mhtn) New York City
TURNBULL, GRACE CLAPPERTON.....	East Orange, N. J.
VALENTINE, MURIEL.....	(Mhtn) New York City
WALKER, MARY BARBOUR.....	(Mhtn) New York City
WARDELL, LILIAN MAY.....	(Mhtn) New York City
WHITE, MARGARET MARIE.....	Croton, N. Y.
WIESNER, LILLIAN ADELAIDE.....	(Mhtn) New York City
WILKES, EDNA MAJOR.....	(Mhtn) New York City

WOODMAN, SOPHIE PARSONS.....	(Mhtn) New York City
YALE, DAISY IRENE.....	Brewster, N. Y.
YOUNG, JULIA ELEKTRA LUDLOW (Mrs. R. M. YOUNG).....	(Mhtn) New York City
Freshman Class.....	101

## SPECIAL STUDENTS

ALSOP, GULIELMA FELL.....	(Bklyn) New York City
ANDERSON, HELEN BEATRICE.....	(Q) New York City
BASS, REUBE.....	Terrell, Tex.
BORG, EDITH DULCE.....	(Mhtn) New York City
BORG, ELSIE HELEN.....	(Mhtn) New York City
BORLAND, GEORGETTE HAVEN.....	(Mhtn) New York City
CADMUS, MILDRED EMILIE.....	Newark, N. J.
CAHN, ANITA GELLA.....	(Mhtn) New York City
CALHOUN, MARY EDWARDS.....	(Mhtn) New York City
ECKEL, GERTRUDE ELIZABETH.....	(Mhtn) New York City
EMERSON, HELENA TITUS.....	(Mhtn) New York City
GANO, LINA E.....	(Mhtn) New York City
GOLDSMITH, EVELYN MIRIAM.....	(Mhtn) New York City
GRANDIN, FRANCES BARBERIE.....	(Mhtn) New York City
HACKETT, IRENE ALICE.....	(Mhtn) New York City
HARRIMAN, MARY.....	Arden, N. Y.
HENDERSON, NATHALIE.....	(Mhtn) New York City
JACOBS, EVA.....	(Mhtn) New York City
KESSLER, JOSEPHINE DILWORTH.....	(Mhtn) New York City
LOINES, HILDA.....	(Bklyn) New York City
McDOWELL, OLIVE VINCENT.....	(Mhtn) New York City
PALMER, ELIZABETH ROBERTS.....	Elsberry, Mo.
SOLOMON, HELEN.....	(Mhtn) New York City
STARR, ALJEAN EDWARD.....	Louisville, Ky.
STOBO, JEANNETTE RUSSELL.....	(Mhtn) New York City
WELCH, CATHARINE GALBRAITH.....	(Bklyn) New York City
Special Students.....	26

## STUDENTS OF MUSIC

ALLIOTT, FLORENCE MARTHA.....	Sawbridgeworth, Eng.
ARMS, CLARA LOUISE.....	Chicago, Ill.
BASHAW, MARY.....	Louisville, Ky.
BIRNIE, LUCY GUNN.....	(Mhtn) New York City
BOSHCO, VICTORIA.....	(Mhtn) New York City
BOWDEN, HELEN ELIZABETH SNASDELL.....	Jersey City, N. J.
BOXALL, AVICE.....	(Mhtn) New York City
CAMERON, SAMUELLA.....	(Mhtn) New York City
COSTIKYAN, AROUSIAG.....	East Orange, N. J.
CROCKER, MARY SAMPSON.....	(Mhtn) New York City
DEMENT, GERALDINE.....	East Orange, N. J.
ERTZ, MARY BLOSSOM.....	(Mhtn) New York City
ERVING, ELEANOR CECILIA.....	(Mhtn) New York City
EVANS, CLARA LOUISE.....	(Q) New York City
FANNING, RITA.....	(Mhtn) New York City
FINCH, RUTH AFTON.....	Huntsville, Tex.
GOLDMARK, TEKLA R. R. (Mrs. JAMES GOLDMARK).....	(Mhtn) New York City
GREER, MARY MORRISON.....	(Mhtn) New York City
HAAN, HELEN ILONE.....	(Mhtn) New York City
HALL, MARIE FREDERICA.....	(Bklyn) New York City
HAMMOND, BESSIE ELLEN.....	Bolivar, Pa.
HENDRICKS, MYRTILLA F. (Mrs. H. H. HENDRICKS).....	(Mhtn) New York City
KNOX, ELFLEDA ETHEL (Mrs. E. E. KNOX).....	Hoboken, N. J.
LARTER, MARY LORINDA.....	Newark, N. J.

MACMAHON, MARY GERTRUDE.....	(Mhtn) New York City
MERRIMAN, ELSIE AMELIA.....	New Britain, Conn.
MORGENTHAU, JOSEPHINE (Mrs. H. MORGENTHAU).....	(Mhtn) New York City
MOSS, OLIVE.....	(Mhtn) New York City
NBERGAARD, GOLLA DE.....	Karlsfält, Sweden
NELSON, RUTH AUGUSTA.....	(Mhtn) New York City
RIPLY, ALICE VAN DOREN.....	(Mhtn) New York City
ROCHESTER, ANNA.....	Englewood, N. J.
RYSPAN, BERTHA.....	(Mhtn) New York City
SHWAB, FLORA.....	Louisville, Ky.
SINCLAIR, JEAN STUYVESANT.....	(Bklyn) New York City
SLOANE, MARION WALLACE.....	Newark, N. J.
SMITH, ETHEL NATHALIE.....	(Mhtn) New York City
UNDERHILL, MARGARET VARNUM.....	(Mhtn) New York City
VAN NEST, MARY VANDERPOOL.....	Glen Ridge, N. J.
ZEHE, EMMA JULIA (Mrs. E. J. ZEHE).....	(Bklyn) New York City
Students of Music.....	40

## SUMMARY

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## TEACHERS COLLEGE

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JANE BERGER,

Assistant Secretary

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CLYDE FURST, A.M.	<i>Secretary</i>
PAUL MONROE, Ph.D.	<i>Elected Delegate to the University Council</i>

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NICHOLAS MURRAY BUTLER, Ph.D., LL.D.	<i>President</i>
FREDERICK REMSEN HUTTON, Ph.D.	<i>Professor of Mechanical Engineering</i>
JOHN FRANCIS WOODHULL, Ph.D.	<i>Professor of Physical Science</i>
JAMES MCKEEN CATTELL, Ph.D.	<i>Professor of Psychology</i>
FRANKLIN THOMAS BAKER, A.M.	<i>Professor of English Language and Literature</i>
EDWARD HOWARD CASTLE, A.M.	<i>Professor of History</i>
RICHARD ELWOOD DODGE, A.M.	<i>Professor of Geography</i>
CHARLES EARL BIKLÉ, A.M.	<i>Adjunct Professor of Mathematics</i>
JAMES EARL RUSSELL, LL.D.	<i>Professor of Education</i>
FRANCIS ERNEST LLOYD, A.M.	<i>Adjunct Professor of Biology</i>
ALFRED VANCE CHURCHILL, A.M.	<i>Professor of Fine Arts</i>
HELEN KINNE	<i>Professor of Domestic Science</i>
MARY DUNCAN RUNYAN	<i>Professor of Kindergarten</i>
MARY SCHENCK WOOLMAN	<i>Professor of Domestic Art</i>
FRANK MORTON MCMURRY, Ph.D.	<i>Professor of Elementary Education</i>
CHARLES RUSSELL RICHARDS, B.S.	<i>Professor of Manual Training</i>
PAUL MONROE, Ph.D.	<i>Professor of the History of Education</i>
SAMUEL TRAIN DUTTON, A.M.	<i>Professor of School Administration</i>
GONZALEZ LODGE, LL.D.	<i>Professor of Latin and Greek</i>
EDWARD LEE THORNDIKE, Ph.D.	<i>Adjunct Professor of Genetic Psychology</i>
CHARLES HUBERT FARNSWORTH	<i>Adjunct Professor of Music</i>
DAVID EUGENE SMITH, Ph.D.	<i>Professor of Mathematics</i>
THOMAS DENISON WOOD, Ph.D.	<i>Professor of Physical Education</i>
JULIUS SACHS, Ph.D.	<i>Professor of Secondary Education</i>
ELIJAH WILLIAM BAGSTER-COLLINS, A.M.	<i>Adjunct Professor of German</i>
LOUIS ROUILLION, A.M.	<i>Adjunct Professor of Manual Training</i>
MAURICE ALPHEUS BIGELOW, Ph.D.	<i>Adjunct Professor of Biology</i>
FREDERICK HENRY SYKES, Ph.D.	<i>Director of the Extension Department</i>
VIRGIL PRETTYMAN, A.M.	<i>Principal of the Horace Mann High School</i>
HENRY CARR PEARSON, A.B.	<i>Principal of the Horace Mann Elementary School</i>
CLYDE FURST, A.M.	<i>Secretary</i>

## Other Officers and Instructors

WILLIAM SMITH ROBINSON	<i>Instructor in Drawing and Painting</i>
MARY ROGERS	<i>Instructor in Wood-Carving</i>

GEORGE PHILIP KRAPP, Ph.D.	<i>Instructor in English</i>
CHARLES PRENTICE BENNS, M.E.	<i>Instructor in Machine Work</i>
HERBERT VAUGHAN ABBOTT, A.B.	<i>Instructor in English</i>
CHARLES CONRAD SLEFFEL	<i>Instructor in Forging</i>
CHARLES WILLIAM WEICK, B.S.	<i>Instructor in Wood-Working</i>
ARTHUR CHARLES HOWLAND, Ph.D.	<i>Instructor in History</i>
CAROLINE GERALDINE O'GRADY	<i>Instructor in Kindergarten</i>
JOHN ANGUS MACVANNEL, Ph.D.	<i>Instructor in History and Principles of Education</i>
WILLIAM H. NOYES, A.B.	<i>Instructor in Manual Training</i>
LOUIS GASPARD MONTÉ	<i>Instructor in Fine Arts</i>
MAUD MARCH	<i>Instructor in Physical Education</i>
MARY BEALS VAIL	<i>Instructor in Domestic Science</i>
MARI RUEF HOFER	<i>Instructor in Music</i>
FRANK ALVAH PARSONS	<i>Instructor in Fine Arts</i>
ISABEL COBB FRENCH	<i>Tutor in Kindergarten</i>
LOUISE CHRISTINE SUTHERLAND	<i>Tutor in Kindergarten</i>
CLARA BARBARA KIRCHWEY	<i>Tutor in Geography</i>
NAOMI NORSWORTHY	<i>Tutor in Educational Psychology</i>
ADA M. WATTERSON, A.M.	<i>Tutor in Biological Science</i>
MARY BACKUS HYDE	<i>Tutor in Manual Training</i>
HELEN MARION DAY	<i>Tutor in Domestic Science</i>
JOHN DRISCOLL FITZGERALD, A.B.	<i>Tutor in French</i>
ERNEST B. KENT, Ph.D.	<i>Tutor in Elementary Education</i>
MAY BELLE VAN ARSDALE	<i>Assistant in Physical Science</i>
ALETTA VAN WYCK SCHENCK	<i>Assistant in Domestic Art</i>
MATILDA GARRETSON REA	<i>Assistant in Domestic Art</i>
CAROLINE LOUISA PENISTON	<i>Assistant in Domestic Art</i>
ANNA LOWELL ALLINE	<i>Assistant in Hospital Economics</i>
CLARA PENISTON	<i>Assistant in Domestic Art</i>
CAROLINE ELEANOR MEHAN	<i>Assistant in Voice Culture</i>
JEANETTE ROWLAND SEIBERT, A.B.	<i>Assistant in Educational Psychology</i>
ELIZABETH SAGE	<i>Assistant in Domestic Art</i>
HELEN GRAY NOBLE	<i>Assistant in Domestic Art</i>
ELIZA BENTON	<i>Assistant in Domestic Science</i>
JOHN L. KIND, Ph.D.	<i>Assistant in German</i>
WILLIAM M. CASTLINE, M.D.	<i>Assistant in Physical Education</i>
MAUD MARGARET ZERBE	<i>Assistant in Music</i>
AZUBAH JULIA LATHAM	<i>Assistant in Voice Culture</i>

### Lecturers

HERMAN T. VULTÉ, Ph.D.	<i>Lecturer in Household Chemistry</i>
RICHARD MORSE HODGE, D.D.	<i>Lecturer in Biblical Literature</i>
THOMAS WHITNEY SURETTE	<i>Lecturer in Music</i>
WENDELL VOLK	<i>Lecturer in Domestic Art</i>

EUGÉNIE MENUT.....	<i>French</i>
MAY BELLE VAN ARSDALE.....	<i>Physics and Chemistry</i>
KATHARINE MORE COCHRANE, A.B.....	<i>Greek and Latin</i>
CHARLES MCCOY BAKER, A.B.....	<i>Latin</i>
HARRIET ANNA HITCHCOCK.....	<i>Fine Arts</i>
ELIZA RHEES BUTLER, A.B.....	<i>History</i>
LUCY HESS WEISER.....	<i>Manual Training</i>
ROLAND HUGH WILLIAMS, B.S.....	<i>Mathematics</i>
KATE STUART ANTHONY.....	<i>Domestic Art</i>
FRANCES ELBERTINE MCRAE.....	<i>Physical Science</i>
LAURA BRAINARD WHITTEMORE.....	<i>Domestic Science</i>
MARY BROWNSON GILLMORE, Ph.B.....	<i>History</i>
CLIFFORD UPTON, A.B.....	<i>Mathematics</i>
EDITH RAND, A.B.....	<i>Biology</i>
ALLAN ABBOTT, A.B.....	<i>English</i>
ANDREW D. KENNEDY.....	<i>Fine Arts</i>
MARIE RUEF HOFER.....	<i>Music</i>
WILLIAM C. RICHARDSON, A.M.....	<i>Greek</i>
HELEN BAKER.....	<i>English</i>
CHARLES PRENTICE BENNS.....	<i>Manual Training</i>
FRANK ELBERT BROOKS, A.B.....	<i>French</i>
OTHO GRANDFORD CARTWRIGHT, A.M.....	<i>History</i>
HOWARD F. DOANE, A.M.....	<i>Latin</i>
EDGAR FAUVER, A.B.....	<i>Physical Training</i>
CECILIE FREESE.....	<i>French</i>



WILLIAM HELLMUTH GOHDES, A.B.	German
ALEXANDER JAMES INGLIS, A.B.	Latin
CLARA BARBARA KIRCHWEY	Geography
EMMA LENORE MACALARNEY, A.B.	English
EGBERT EUGENE MACNARY	Manual Training
LOUIS S. ODELL, A.B.	Mathematics
STELLA SECREST, A.B.	Mathematics
CHARLES CONRAD SLEFFEL	Manual Training
CHARLES WEICK	Manual Training
MARY EDWARDS CALHOUN	History
ELIZABETH M. WHEELOCK	Latin
ELIZABETH BURCHENAL	Physical Education
MARIE KARCHER BROOKS	French
ELIZABETH A. COLTON, B.S.	English
IDA ELIZABETH ROBBINS	Fourth Grade
EVELYN BATCHELDER	Second Grade
SUSAN ADELE LATHROP	Sixth Grade
CAROLINE WOODBRIDGE HOTCHKISS	Seventh Grade
MARIAM CHARLOTTE WINCHESTER	First Grade
MARY FREDERIKA KIRCHWEY	Sixth Grade
MARY HAMMET LEWIS	Third Grade
EDITH CORNELIA BARNUM	First Grade
FRANK ALVAH PARSONS	Eighth Grade
LAURA BELLE UNDERHILL	Fifth Grade
KATHARINE WELLS	Second Grade
LILLIAN EMILY ROGERS	Seventh Grade
MARY GERTRUDE PEABODY	Fifth Grade
FLORENCE MAY MARSHALL	Fourth Grade
IRENE A. HACKETT	Seventh Grade
BESSIE MILDRED COBURN	Fifth Grade
MILDRED IONE BATCHELDER	Third Grade
IRENE ALICE HACKETT	Sixth Grade
SIEGFRIED MARIA HANSEN	Sixth Grade
GEORGIA FARRAND BACON	Seventh Grade
JAMES JARDINE	Physical Education
EDITH EDWINA RAND	Nature Study
CHARLOTTE GERRISH	Physical Training
HELEN LATHAM	Music
MARION RYLAND	Assistant
CATHARINE PASCH	Assistant
FLORENCE MABEL MARSHALL	Assistant

#### Instructors and Assistants in the Speyer School

HARRIET MILLS	Kindergarten
CLARA HARRIS	First Grade
CORNELIA T. HALL	Second Grade
LOUISE GLANTON	Third Grade

ISABELLA AUSTIN.....	<i>Fourth Grade</i>
LILLIAN RULE.....	<i>Fifth Grade</i>
IDA C. MESSER.....	<i>Sixth Grade</i>
ETHEL SALISBURY.....	<i>Physical Education</i>
MAUD MARGARET ZERBE.....	<i>Music</i>

## GENERAL STATEMENT

Teachers College, founded in 1888, and chartered by the Regents of the University of the State of New York in 1889, became, in 1898, a part of the educational system of Columbia University. The President of Columbia University is President, *ex-officio*, of Teachers College, and the College is represented in the University Council by its Dean and a representative elected from its Faculty. The College meanwhile maintains its separate corporate organization, and its Board of Trustees continues to assume financial responsibility for its maintenance.

Teachers College is thus the professional school of Columbia University for the study of education and the training of teachers, taking academic rank with the Schools of Law, Medicine, and Applied Science. It affords opportunity for study and research in the field of education, and both theoretical and practical preparation of teachers of both sexes for elementary and secondary schools, of specialists in various branches of educational work, and of school principals, supervisors, and superintendents.

The following courses of study are offered by the College:

1. A collegiate course of two years. This course may be entered by any student who, having satisfied the requirements for admission to the undergraduate colleges of Columbia University, desires to direct his collegiate studies specifically towards teaching. This course, when followed by a two-years' professional course, leads to the degree of Bachelor of Science.

2. Two-year professional courses leading to the Bachelor's Diploma of Teachers College for (a) teaching specified subjects in secondary schools; (b) teaching in elementary schools or in kindergartens; (c) teaching Domestic Art, Domestic Science, Fine Arts, Manual Training, Music, and Physical Education.

Candidates for admission to course (a), must have completed the sophomore year in an approved college; to course (b), the sophomore year in an approved college, or graduation from an approved normal school or teachers' training school; to course (c), at least two years of collegiate study, technical training, or experience in teaching, after the completion of a satisfactory course in an approved secondary school; to course (d), at least two years of collegiate study or technical training after the completion of a satisfactory course in an approved secondary school.

3. Graduate courses of at least one year leading to the Master's Diploma in any department of the College. Candidates for admission

to these courses must have received a Bachelor's Diploma from Teachers College, or an equivalent collegiate and professional education in an approved institution of learning.

4. Graduate courses of at least two, ordinarily of three, years, leading to the Doctor's Diploma in certain departments of the College. The conditions for entrance to these courses are the same as those for the course leading to the Master's Diploma.

The courses of study for teaching in secondary schools are so arranged that undergraduate students of Columbia College and of Barnard College, and students who are prepared to enter the junior class of either of these colleges, may, if they desire, obtain the diploma of Teachers College at the time of receiving their degree of Bachelor of Arts. In like manner, qualified students of Teachers College may obtain their diploma and the degree of Bachelor of Science at the same time.

Certain courses in Teachers College may be counted in partial fulfillment of the requirements for the University degrees of Master of Arts and Doctor of Philosophy. Candidates for the degrees of Master of Arts or Doctor of Philosophy who present Education as a major or as a minor subject may arrange their work in such a way as to secure at the same time a Bachelor's or a Master's Diploma from Teachers College.

The Horace Mann School and the Speyer School, maintained by Teachers College as schools of observation and experiment, include kindergarten, elementary, and secondary classes, and offer exceptional advantages for the investigation of educational problems and for the study of the practical work of teaching.

### **Buildings and Equipment**

The buildings of Teachers College occupy the block directly north of the University Campus, bounded by 120th and 121st Streets, Amsterdam Avenue and Broadway.

The Main Building, containing, in addition to its equipment for administration and instruction, the Bryson Library—the educational library of the University—and the Educational Museum, is adjoined by the Milbank Memorial Building, housing a number of academic and technical departments and containing the Memorial Chapel; and by the Macy Manual Arts Building, with its exceptional equipment for the departments of Manual Training and Fine Arts. The Frederick Ferris Thompson Memorial Building for the department of Physical Education will connect the Milbank Building on the west with the building of the Horace Mann School. The new building of the James Speyer School is a short distance north of the College, on Lawrence Street, near Amsterdam Avenue. Whittier Hall, the dormitory for the women students of the University, is under the control of Teachers College.

## REGISTER OF STUDENTS, 1903-04

### Graduate Students

#### Candidates for the Doctor's Degree and Diploma

The following students are registered also under the Faculty of Philosophy,  
cf. pp. 338-364:

- ANDREWS, BENJAMIN RICHARD.....(Mhtn) New York City  
Cornell University, A.B., 1901; A.M., 1903.  
*Education, Psychology.*
- BALDWIN, ARTHUR POND.....(Mhtn) New York City  
College of the City of New York, A.B., 1876.  
Columbia University, A.M., 1901.  
Teachers College, Secondary Diploma, 1902.  
*Education.*
- \*BROOKS, JOHN LEE.....(Mhtn) New York City  
Southwestern University, Georgetown, Texas, A.M., 1893.  
Vanderbilt University, Nashville, Tenn., 1893-94.  
Drew Theological Seminary, B.D., 1900.  
*Education, Psychology.*
- BURKS, JESSE DISMUKES.....Paterson, N. J.  
University of Chicago, Ph.B., 1893.  
University of California, B.L., 1894.  
*Education.*
- COLBURN, HARRISON S.....(Mhtn) New York City  
Purdue University, B.S., 1900.  
Columbia University, A.M., 1902.  
Teachers College, Master's Diploma, 1902.  
*Education, Sociology.*
- DEARBORN, WALTER FENNO.....Middletown, Conn.  
Wesleyan University, A.B., 1896; A.M., 1903.  
*Education, Psychology, Philosophy.*
- DUKESHIRE, STANLEY CLIFFORD.....Maitland, Nova Scotia  
Nova Scotia State Normal School, Truro, N. S., 1898-99.  
Acadia College, Wolfville, N. S., A.B., 1898.  
Yale University, A.B., 1903.
- ELLIOTT, EDWARD CHARLES.....Falls Creek, Idaho  
University of Nebraska, B.S., 1895; A.M., 1897.  
*Education, Sociology.*
- FOSTER, FREDERIC JAMES.....(Mhtn) New York City  
College of the City of New York, B.S., 1891.  
Teachers College, Master's Diploma, 1903.  
Columbia University, A.M., 1903.  
*History, Education.*
- FUERST, SIDNEY MARSDEN.....(Mhtn) New York City  
Columbia University, A.B., 1901; A.M., 1902.  
*Education.*
- GAMMON, MONTAGUE.....Rome, Ga.  
University of Georgia, Athens, Ga., B.S., 1895.  
Teachers College, Master's Diploma, 1902.  
Columbia University, A.M., 1902.  
*Education, Sociology.*

\* Candidate for the Ph.D. degree only.



- \*GOLDWASSER, ISRAEL EDWIN.....(Mhtn) New York City  
College of the City of New York, B.S., 1897; M.S., 1900.  
*Education.*
- GRADY, WILLIAM EDWARD.....(Mhtn) New York City  
College of the City of New York, B.S., 1897.  
New York University, LL.B., 1900; M.Pd., 1903.  
*Education, Psychology.*
- \*HAMILTON, CHARLES ALBERT.....(Jamaica) New York City  
Harvard University, A.B., 1878.  
Columbia University, LL.B., 1885.  
*Education.*
- HENSON, CLARENCE CHERRINGTON.....Clay, O.  
Ohio University, A.B., 1899; A.M., 1901.  
Teachers College, Master's Diploma, 1903.  
*Education.*
- \*JACKSON, LAMBERT LINCOLN.....Brockport, N. Y.  
Michigan Normal College, B.Pd., 1899.  
Michigan University, A.B., 1898; A.M., 1899.  
*Education, Mathematics, Astronomy.*
- JAMESON, CHARLES BARING.....(Mhtn) New York City  
*Education, History, Sociology.*
- \*LEWIS, ALFRED HOMES.....Greenwich, Conn.  
Princeton University, 1896-1898.  
Columbia University, A.B., 1902; A.M., 1903.  
Teachers College, Bachelor's Diploma, 1902.  
*Education.*
- LONGACRE, GEORGE FORCE.....Royersford, Pa.  
Ursinus College, A.B., 1896.  
*Psychology, Education, History.*
- MARKS, LOUIS.....(Mhtn) New York City  
College of the City of New York, B.S., 1896.  
University of New York, M.Pd., 1903.  
*Education, Psychology, Philosophy.*
- \*MERIAM, JUNIUS LATHROP.....Albany, N. Y.  
Oberlin College, A.B., 1895.  
New York State Normal College, Pd.B., 1898.  
Harvard University, A.M., 1902.  
*Education.*
- \*PAUL, FRANCIS HUGH JOSEPH.....Long Island City, N. Y.  
College of the City of New York, A.B., 1897.  
University of New York, M.Pd., 1902; D.Pd., 1903.  
*Education, Psychology.*
- PAYNE, BRUCE RYBURN.....Durham, N. C.  
Trinity College, A.B., 1896; A.M., 1902.  
Columbia University, A.M., 1903.  
*Education, Psychology, Philosophy.*
- REYNOLDS, JAMES JOSEPH.....(Br) New York City  
College of the City of New York, B.S., 1893.  
New York University, LL.B., 1897.  
Columbia University, A.M., 1902.  
Teachers College, Master's Diploma, 1902.  
*Education, English.*
- \*SHAW, IRA DENNISON.....(Mhtn) New York City  
State Normal School, Randolph, Vt., 1890.  
Oberlin College, A.B., 1898.  
*Education, Psychology, Philosophy.*
- \*STRAYER, GEORGE DRAYTON.....Baltimore, Md.  
Johns Hopkins University, A.B., 1903.  
*Education, Economics.*
- SUZZALLO, ANTHONY HENRY.....Stanford University, Cal.  
State Normal School, San José, Cal., 1895.  
Stanford University, A.B., 1899.  
Columbia University, A.M., 1902.  
*Education, Psychology, Sociology.*

\* Candidate for the Ph.D. degree only.

- SWIFT, FLETCHER HARPER.....(Bklyn) New York City  
Dartmouth College, A.B., 1898.  
Union Theological Seminary, New York City, B.D., 1903.  
*Education, Philosophy.*
- TUCKER, LOUISE EMERY.....(Bklyn) New York City  
Adelphi College, A.B., 1900.  
Columbia University, A.M., 1901.  
*Education.*
- WADE, JOHN EDGAR.....(Mhtn) New York City  
College of the City of New York, B.S., 1897.  
Columbia University, A.M., 1902.  
*Education, Philosophy, English.*
- \*WELLS, HERMAN JAY.....(Q) New York City  
Williams College, A.B., 1887.  
Columbia University, A.M., 1902.  
*Education.*
- \*WIEAND, ALBERT CASSEL.....Smithville, O.  
Juniatta College, 1890.  
McPherson College, A.B., 1895; A.M., 1900.  
University of Chicago, Ph.B., 1901.  
*Education, Philosophy.*
- \*WILCOMB, CHESTER JAMES.....(Mhtn) New York City  
Harvard University, A.B., 1895.  
Columbia University, A.M., 1897.  
*Education.*

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## Candidates for the Master's Degree and Diploma

The following students are registered also under the Faculty of Philosophy,  
*cf.* pp. 338-364:

- § ADDICOTT, JAMES EDWIN.....(Mhtn) New York City  
Teachers College, B.S., 1903.  
*Education, Sociology.*
- ANDREW, WILLIAM WALTER.....Providence, R. I.  
Brown University, Ph.B., 1903.  
*Education, Psychology, Music.*
- †BAYLIS, GEORGE WILLIAM.....(Bklyn) New York City  
Brown University, Ph.B., 1899.  
*Education.*
- †BAYNE, STEPHEN FIELDING.....(Mhtn) New York City  
College of the City of New York, B.S., 1898.  
*Education.*
- BIKLÉ, JOSEPH STITT.....Hagerstown, Md.  
Columbia University, A.B., 1903.  
*Education, Philosophy.*
- BLISS, DON CARLOS.....Kearny, N. J.  
Dartmouth College, A.B., 1892; A.M., 1894.  
*Education, History.*
- †BRINCKERHOFF, ANNIE M.....Mt. Vernon, N. Y.  
Vassar College, A.B., 1895.  
*Education.*
- †BRINCKERHOFF, MARY LOUISE.....Mt. Vernon, N. Y.  
Vassar College, A.B., 1899.  
*Education, English.*
- BROWN, UDETTA DOTY.....(Mhtn) New York City  
Wellesley College, A.B., 1903.  
*French.*
- BRUÈRE, ALICE H.....(Mhtn) New York City  
Cornell University, B.S., 1895.  
*Education, Physics.*
- BURT, AMY M.....Swanton, Vt.  
University of Vermont, Ph.B., 1900.  
*Education, History.*

\* Candidate for the Ph.D. degree only.      § Also a candidate for the B.S. degree.  
† Candidate for the A.M. degree only.

- CARPENTER, MABEL ADELINE.....St. Johnsbury, Vt.  
Wellesley College, 1895.  
Radcliff College, A.B., 1902.  
*Education, English.*
- CLARK, ANNA MAY.....Brookfield, Vt.  
State Normal School, Conn., 1895.  
University of Vermont, Ph.B., 1898.  
*Education, Zoology, Botany.*
- CLARK, MARY AUGUSTA.....Bedford, N. Y.  
Mt. Holyoke College, A.B., 1903.  
*Education, Mathematics.*
- COFFEY, ALEXANDER B.....Palo Alto, Calif.  
State Normal School, Mo., B.S.D., 1900; M.S.D., 1901.  
Leland Stanford, Jr., University, A.B., 1903.  
*Education, Sociology.*
- COURSALT, JESSE H.....Columbus, O.  
Ohio University, A.B., 1893; A.M., 1898.  
Harvard University, A.M., 1900.  
*Education, Psychology.*
- CRANE, WILLIAM ALBERT.....Stapleton, N. Y.  
Adelphi College, Brooklyn, A.B., 1903.  
*Education.*
- DEAN, PHILIP REDFIELD.....Newark, N. J.  
Harvard University, A.B., 1896.  
*Education.*
- †EATON, KATRINA ELIZABETH.....Beloit, Wis.  
Beloit College, A.B., 1903.  
*Education, German.*
- †FAHS, SOPHIA LYON.....(Mhtn) New York City  
Wooster University, A.B., 1897.  
*Education, Psychology.*
- FILFUSS, NATHANIEL.....(Mhtn) New York City  
College of the City of New York, A.B., 1902.  
*Education.*
- GOLDWASSER, DAVID.....(Mhtn) New York City  
College of the City of New York, A.B., 1903.  
*Education, English.*
- †GUYER, CAROLINE CLARKSON.....Trenton, N. J.  
Smith College, A.B., 1881.  
*Education, English.*
- †HART, CLARA AVIS.....(Mhtn) New York City  
Hampton College, A.B., 1882.  
Cornell University, B.S., 1895.  
*Education, Mathematics.*
- HILLS, WILLIAM FORREST.....(Mhtn) New York City  
Columbia University, A.B., 1903.  
*Philosophy, Psychology.*
- †HOLLOWAY, J. HENRY.....(Mhtn) New York City  
College of the City of New York, B.S., 1898.  
*Education.*
- †KAIGHN, RAYMOND PIMLOTT.....(Bklyn) New York City  
Hamline University, Ph.B., 1898.  
*Education.*
- KERN, OLIVER BLAINE.....Landisburg, Pa.  
Millersville Normal School, Millersville, Pa., M.E., 1895.  
Franklin and Marshall College, Lancaster, Pa., A.B., 1899.  
*Education, Psychology.*
- KING, BERTHA.....Whitby, Ont., Canada  
Toronto University, A.B., 1902.  
*Education, English.*

† Candidate for the A.M. degree only.

- KNAPP, THAD. J. .... Arlington, N. J.  
University of Michigan, Ann Arbor, Mich., Ph.B., 1898.  
*Education.*
- KNOX, THOMAS HARRY. .... (Mhtn) New York City  
College of the City of New York, B.S., 1888.  
*Education.*
- KONKOL, ALOIS BOHNSLAR. .... (Mhtn) New York City  
University of Prague, 1890-1891.  
Union Theological Seminary, New York, 1894.  
*Education, Latin.*
- †LAWYER, LOUIS ROSSELL. .... (Mhtn) New York City  
College of the City of New York, A.B., 1896.  
*Education.*
- LUDWIG, AUGUSTUS. .... (Mhtn) New York City  
College of the City of New York, B.S., 1897.  
*Education, English.*
- MACCASLIN, ELMER ELLSWORTH. .... Yellow Springs, O.  
Antioch College, A.B., 1892; A.M., 1895.  
*Education, History.*
- MARKER, GEORGE EDWARD. .... Urbana, Ill.  
State Normal School, Ill., 1895.  
University of Illinois, A.B., 1903.  
*Education, Psychology, Manual Training.*
- †MATTOON, ANNA ISABELLA. .... (Mhtn) New York City  
Wellesley College, B.S., 1894.  
*Education.*
- MESSER, IDA CATHERINE. .... Cleveland, O.  
Western Reserve University, L.B., 1900; A.M., 1902.  
*Education, Psychology, German.*
- MOON, ALPHEUS WILBERFORCE. .... Monroeville, N. Y.  
Indiana University, A.B., 1895.  
*Education, Mathematics.*
- NEWMAN, CHARLES A. P. .... (Mhtn) New York City  
College of the City of New York, A.B., 1900.  
*Education.*
- O'REGAN, JAMES JOSEPH. .... (Mhtn) New York City  
St. Francis Xavier College, A.B., 1895.  
*English, Psychology.*
- PECK, ROGER CROSSMAN. .... North Bennington, Vt.  
Yale University, A.B., 1900.  
*Education, Physics.*
- ROOP, MARCUS J. .... Ridgefield, N. J.  
Heidelberg College, Ohio, A.B., 1893; A.M., 1896.  
New Brunswick Theological Seminary, N. J., B.D., 1896.  
*Education, Philosophy, English.*
- RUSSELL, LUCIUS KIMBALL. .... Arlington, Mass.  
Massachusetts Institute of Technology, S.B., 1886.  
*Education, Chemistry.*
- STRAUSS, FEIST M. .... Cleveland, O.  
Adelbert College, A.B., 1903.  
*Latin, Greek.*
- THAXTON, OSCIEOLA ALVIN. .... Jackson, Ga.  
Mercer University, A.B., 1901.  
*Education, Psychology.*
- TOWNSEND, MARION GOODALL. .... (Mhtn) New York City  
Barnard College, A.B., 1901.  
*Education, Latin.*
- †WETTLIN, EMMA LOUISE. .... Newark, N. J.  
Teachers College, Bachelor's Diploma, 1902; B.S., 1902.  
*Education.*

† Candidate for the A.M. degree only.



ZIEGLER, CHARLES EDWARD.....(Br) New York City  
College of the City of New York, A.B., 1898.  
*Education.*

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### Candidates for the Higher Diploma<sup>1</sup>

\*\*BELLER, WILHELMINA CATHARINE.....(Mhtn) New York City  
Normal College, 1881.

BLOOD, ANNAH PRENTICE.....Mt. Vernon, N. Y.  
State Normal School, Salem, Mass., 1881.

BURDICK, LARON M.....(Mhtn) New York City  
Albany State Normal School, 1880.

[3]

### Professional Students Candidates for a Bachelor's Diploma

#### SENIOR CLASS

|| AERY, WILLIAM ANTHONY (*History*).....Elmhurst, New York City  
§ AGNEW, ELIZABETH JANE (*Domestic Science*).....Yates Centre, Kan.  
Kansas State Agricultural College, B.S., 1900.

|| ARNAUD, LUCY GIULIA (*Latin*).....(Bklyn) New York City

|| BACON, MARJORIE KATE (*Kindergarten*).....(Bklyn) New York City

§ BALLOU, FRANK WASHINGTON (*History*).....Potsdam, N. Y.  
State Normal School, Potsdam, N. Y., 1902.

|| BARKER, SADIE ROSE (*Latin*).....Irvington, N. Y.

BATDORFF, IDA J. (*Domestic Science*).....Wayne, Pa.  
Lock Haven Normal School, 1879-1880.

§ BATTEY, LEWIS BIRCH (*Manual Training*).....Fall River, Mass.  
Worcester Polytechnic Institute, 1898-1899.  
Massachusetts Institute of Technology, 1899-1900.

BEATON, ADAH APHIA (*Kindergarten*).....Columbus, Ohio.  
Kindergarten Normal Training School, Columbus, O., 1899.

† BECHERT, ALEXANDER OTTO (*German*).....(Bklyn) New York City  
Columbia College, A.B., 1903.

|| BEIFELD, MINNIE MARGARET (*History*).....(Mhtn) New York City

|| BELL, FLORENCE EMILY (*Elementary Teaching*).....Flushing, L. I.

BENEDICT, MAY DORCAS (*Domestic Science*).....Irondequoit, N. Y.  
Mechanics Institute, Rochester, N. Y., 1901.

§ BERRY, JOSEPHINE T. (*Domestic Science*).....Waterville, Kan.  
Kansas University, A.B., 1893.

BERTHOLF, KATHERINE ILIFF (*Kindergarten*).....Nyack, N. Y.

BISHOP, LANA (*Domestic Art*).....Grand Rapids, Mich.

BLANCHARD, EDITH (*Kindergarten*).....Montpelier, Vt.  
Smith College, B.L., 1902.

|| BOULGER, MINNIE RANDOLPH (*History*).....(Mhtn) New York City

BOYER, HARRIET AMELIA (*Domestic Science*).....Meadville, Pa.

§ BRIGGS, EVA ELIZA (*Mathematics*).....Potsdam, N. Y.  
State Normal School, Potsdam, N. Y., 1893.

BRUCKMAN, ROSE HARRIET (*Domestic Science*).....St. Louis, Mo.

BURBANK, ANNIE FLORENCE (*Domestic Science*).....Webster, N. H.  
State Normal School, Mass., 1898-1900.

|| BUSHONG, ELSIE GRACE (*Kindergarten*).....Reading, Pa.

BUTLER, FLORENCE LOUISE (*Elementary Teaching*).....Orange, N. J.

BUTLER, LOUIS CALDWELL (*Manual Training*).....Philadelphia, Pa.

<sup>1</sup> These students were admitted prior to the adoption of the new regulations,  
November, 1902, and are permitted to retain their original rating.

\*\* Candidate for the B.S. degree only.

§ Also a candidate for the B.S. degree.

|| Also a candidate for the A.B. degree.

† Also a candidate for the A.M. degree.

- || BUTTS, EDITH (*Secondary Teaching*).....Hoboken, N. J.  
 BUXTON, GEORGE FREDERICK (*Manual Training*).....Portland, Me.  
 Pratt Institute, 1896-1899.
- † CANN, BERTHA (*English*).....Oberlin, O.  
 Oberlin College, A.B., 1896.
- CASSETY, LOUISE MARGARET (*Kindergarten*).....Buffalo, N. Y.  
 State Normal School, Buffalo, N. Y., 1897.
- § CAUCH, FRANK ROBERT (*Manual Training*).....Berkeley, Cal.  
 State Normal School, San José, Cal., 1885.
- § CAZIN, ADELE (*Physical Science*).....Hoboken, N. J.  
 State Normal School, Trenton, N. J., 1896.
- ‡ CHEDSEY, MARY C. (*Biology*).....Yonkers, N. Y.
- || CLAFFY, MARGARET LORETTA CHARLES (*History*).....(Bklyn) New York City
- § CLARE, TERESA ANNA GENEVIEVE (*Domestic Science*).....(Mhtn) New York City  
 Normal College, A.B., 1902.
- § CLARK, ANNA MANSFIELD (*Elementary Teaching*).....Salisbury, Conn.  
 CLARK, FRANCIS XAVIER (*Elementary Teaching*).....Newark, N. J.
- † CLARK, LAURA SOPHRONIA (*Physical Science*).....Randolph, Vt.  
 Middlebury College, B.S., 1894.
- § CLOSS, RACHAEL EVALINE (*Elementary Teaching*).....Rose, N. Y.
- \*\* CLOWES, HELEN COB.....Hempstead, L. I.
- || COMPTON, MABEL GRACE (*English*).....(Bklyn) New York City
- CONNER, MARY EMMA (*Elementary Teaching*).....Scranton, Pa.
- § COONEY, GENEVIEVE (*Kindergarten*).....(Q) New York City  
 Kindergarten Training School, Albany, N. Y., 1896.
- COX, MARY VENABLE (*Manual Training*).....Farmville, Va.  
 State Normal School, Farmville, Va., 1900.
- || CURTIS, SARAH THEODORA (*Greek*).....(Mhtn) New York City
- || DENTON, MABEL (*Mathematics*).....Paterson, N. J.
- DUNNING, MARY AIKMAN (*Domestic Art*).....(Bklyn) New York City  
 Training School, Brooklyn, N. Y., 1887.
- DURFEE, CLAYTON G. (*Secondary Teaching*).....Fredonia, N. Y.  
 State Normal School, Fredonia, N. Y., 1892-1897, 1898-1899.  
 Leland Stanford, Jr., University, 1897-1898.
- \*\* DUTCHER, MARY.....(Mhtn) New York City
- || ENRIGHT, EMMA MULFORD (*Latin*).....Freehold, N. J.
- FEIGENBAUM, CECILIA (*Fine Arts*).....(Mhtn) New York City  
 Normal College, 1898-1902.
- \*\*FOLGER, HARRIET (*Domestic Science*).....Boston, Mass.
- || FOUNTAIN, CHARLOTTE BOYD (*Secondary Teaching*).....Jersey City, N. J.
- § GILLILAND, J. FLORENCE (*History*).....Geneva, N. Y.
- GOERTNER, ROSE LANDAN (Mrs.) (*English and History*).....(Mhtn) New York City
- GOMEZ, MILDRED (*Kindergarten*).....(Mhtn) New York City
- ‡ GOODSELL, WILLYSTINE (*English and History*).....Springfield, Mass.  
 Welch Training School, New Haven, Conn., 1890.
- ‡ GRAVES, JAMES MARTIN (*Mathematics*).....Waddington, N. Y.  
 State Normal School, Potsdam, N. Y., 1888.
- GREENE, CHARLES A. (*Physical Science*).....(Bklyn) New York City  
 Holy Cross College, Worcester, Mass., A.B., 1903.
- GREENE, ETHEL ALICE (*Fine Arts*).....(Mhtn) New York City
- GRISWOLD, FLORENCE KRESSLER (Mrs.) (*Elementary Teaching*).....(Mhtn) New York City
- GUILBERT, JOSEPHINE (*Fine Arts*).....San José, Cal.  
 State Normal School, San José, Cal., 1896.

|| Also a candidate for the A.B. degree.

† Also a candidate for the A.M. degree.

‡ Also a candidate for the B. S. degree.

\*\* Candidate for the B.S. degree only.

- § HALEY, ELIZABETH MAUDE (*Elementary Teaching*).....Jasper, Ala.  
Peabody Normal School, Nashville, Tenn., 1886.
- HALLOWELL, HELEN (*Kindergarten*).....(Mhtn) New York City
- † HAMMOND, ELSIE (*Physical Science*).....Fishkill-on-Hudson, N. Y.  
Mt. Holyoke College, A.B., 1902.
- HANSON, IDA EAGLETON (*Manual Training*).....(Mhtn) New York City
- HARRINGTON, GRACE AILEEN (*Kindergarten*).....Detroit, Mich.  
Michigan Seminary, Kalamazoo, Mich., 1888-1892.
- HARRIS, HOWARD STODDARD (*Manual Training*).....Walkill, N. Y.
- † HAVELOCK, ALFRED ARMSTRONG (*Secondary Teaching*).....Granville Ferry, N. S.  
Acadia College, A.B., 1896.
- || HAWES, JANE JEWETT (*Latin*).....New Rochelle, N. Y.
- || HAYDOCK, AMELIA (*English*).....(Mhtn) New York City
- HAYES, E. BEULAH (*Kindergarten*).....Lewisburg, Pa.  
Woman's College, Baltimore, Md., A.B., 1901.
- HEDLEY, BERTRAM (*Manual Training*).....Cleveland, O.  
Western Reserve Medical College, 1894-1895.
- HIRSDANSKY, SARA RYSHPAN (Mrs.) (*Kindergarten*).....(Mhtn) New York City
- \*\*HIX, MELVIN.....Jefferson, N. Y.
- § HOUSE, ETHEL ADELINE (*Kindergarten*).....Salonica, Turkey  
American College, Constantinople, 1894-1896.  
Lake Erie College, Painesville, O., B.L., 1901.
- HOWARD, MARGARETTA ELIZABETH (*Elementary Teaching*).....North East, Pa.  
State Normal School, Fredonia, N. Y., 1886-1889.
- HUBBARD, MARY AGNES (*Domestic Art*).....New Rochelle, N. Y.
- || HUGHAN, ETHEL MARGARET (*English*).....(Bklyn) New York City
- † HUNT, EMELINE KULER (*English*).....Poughkeepsie, N. Y.  
Vassar College, A.B., 1889.
- || HUNT, MARTHA MARGUERITE (*English*).....Jersey City, N. J.
- HUNTINGTON, RUTH (*Manual Training*).....Norwich, Conn.  
Smith College, B.L., 1897.
- § HUNTING, JANET SARAH (*Elementary Teaching*).....Hartford, Conn.  
State Normal School, New Britain, Conn., 1895.
- || HURLEY, THOMAS LESTER (*History*).....(Mhtn) New York City
- § HUTTMANN, MAUD ALICE (*History*).....(Bklyn) New York City
- JESSUP, EMILY CATHERINE (*Music*).....Salt Lake City, Utah
- § JOHNSON, HELEN LOUISE (*Domestic Science*).....Watertown, N. Y.  
Wells College, Aurora, N. Y., 1881-1884.
- † JOHNSTON, FANNIE (*English*).....Fenton, Mich.  
State Normal School, Mankato, Minn., 1887-1889.  
Carleton College, Minnesota, 1894-1896.  
University of Minnesota, Ph.B., 1901.
- || JOHNSTON, ROSE (*Mathematics*).....Middletown, O.  
National Normal University, Ph.B., 1902.
- † JONES, EDNA BLANCHE (*Secondary Teaching*).....(Mhtn) New York City  
Barnard College, A.B., 1903.
- § KEIL, CAROLINE ELIZABETH (*English*).....(Mhtn) New York City
- † KEITH, MARY HELEN (*Physical Science*).....Braintree, Mass.  
Mt. Holyoke College, B.S., 1894.
- KNOX, GERTRUDE E. (*Secondary Teaching*).....(Mhtn) New York City  
Smith College, 1896-1901.
- KOCH, FRANK J. (*Elementary Teaching*).....Newark, N. J.  
Seton Hall College, A.B., 1903.

§ Also a candidate for the B.S. degree.

|| Also a candidate for the A.B. degree.

† Also a candidate for the A.M. degree.

\*\* Candidate for the B.S. degree only.

- § KORETSKY, ABRAHAM (*Elementary Teaching*).....(Mhtn) New York City  
 LA PORTE, MARTHA D. (*Domestic Science*).....Tyrone, Pa.  
 Bryn Mawr College, A.B., 1895.  
 ¶ LEERS, HILMA (*German*).....Paterson, N. J.  
 ¶ LEWIS, IDA ETHEL (*Latin*).....(Mhtn) New York City  
 § LONDON, JEANNETTE FANNIE (*Elementary Teaching*).....(Mhtn) New York City  
 § LUCEY, MICHAEL HENRY (*History*).....New Paltz, N. Y.  
 State Normal School, New Paltz, 1897-1899.  
 \*\* LYON, ELVIRA NATHAN.....Philadelphia, Pa.  
 ¶ MCCORMICK, ROSE MARIE (*Latin*).....Perth Amboy, N. J.  
 ¶ MCLEAN, ELIZABETH (*Mathematics*).....Jersey City, N. J.  
 § MACINNES, A. (*English and History*).....(Mhtn) New York City  
 § MARTEN, CHARLES (*Manual Training*).....Philadelphia, Pa.  
 § MARTEN, WILLIAM SAMUEL (*Manual Training*).....Philadelphia, Pa.  
 MAYER, HATTIE (*Domestic Science*).....(Mhtn) New York City  
 Normal College, 1893-1899.  
 § MERRILL, ALICE EUDORA (*Domestic Science*).....Saginaw, Mich.  
 ¶ METCALFE, LIZZETTE MAY (*Mathematics*).....(Mhtn) New York City  
 ¶ MILLER, MILDRED ELSEGOOD (*English*).....(Bklyn) New York City  
 ¶ MORGAN, CHARLOTTE ELIZABETH (*English*).....(Bklyn) New York City  
 MORRILL, PENELOPE PATTEN (*Latin*).....Shelby, N. Y.  
 Vassar College, A.B., 1886.  
 NESBIT, MARGARET OTIS (*Fine Arts*).....Yonkers, N. Y.  
 Cooper Institute, New York City, 1896-1899.  
 ¶ NEVINS, DORA RUSSELL (*Mathematics*).....(Bklyn) New York City  
 ¶ NUTT, RACHEL EVANS (*English*).....Cliffside, N. J.  
 OAKLEY, EDITH JANE (*Fine Arts*).....Huntington, N. Y.  
 O'BRIEN, SAIDA (*Elementary Teaching*).....Weehawken, N. J.  
 § ODENCRANTZ, TULLA CAROLINE (*Mathematics*).....Houston, Tex.  
 PARROTT, ALICE BURROWS (*Elementary Teaching*).....Elizabeth, N. J.  
 § PECK, JULIA EMILY (*Kindergarten*).....Montpelier, Vt.  
 Smith College, B.L., 1902.  
 § PIGNOL, ANNA MARTHA GERTRUDE (*German*).....(Bklyn) New York City  
 Royal Seminary, Berlin, 1892-1895.  
 PINCOMB, HELENA MAUDE (*Domestic Science*).....Merriam, Kan.  
 Kansas State Agricultural College, B.S., 1901.  
 ¶ POPPER, HILDA (*English*).....(Mhtn) New York City  
 PREBLE, GRACE R. (*Domestic Art*).....(Mhtn) New York City  
 PRIEST, LIDA TULLOCH (*Fine Arts*).....(Bklyn) New York City  
 Normal School, Washington, D. C., 1896-1898.  
 RICH, JESSIE PINNING (*Domestic Science*).....(Mhtn) New York City  
 RICH, MARY ELIZABETH (*Elementary Teaching*).....Oshkosh, Wis.  
 State Normal School, Oshkosh, Wis., 1900.  
 ¶ RIX, MARY LOUISE (*English*).....Lebanon, N. H.  
 Smith College, 1890-1893.  
 ROBERTS, HELEN E. (*Kindergarten*).....Mount Vernon, N. Y.  
 § ROBINSON, ALICE REBEKAH (*Fine Arts*).....Oxford, O.  
 ¶ RODMAN, BAYARD BLACKWELL (*Physical Science*).....(Q) New York City  
 ROE, H. ESTELLE (*Music*).....Rutherford, N. J.  
 Centenary Collegiate Institute, M.L.A., 1891.  
 § SANDERCOCK, BERTHA LOUISE (*English*).....Oriel, Pa.  
 Wells College, 1896-1899.  
 § SAWYER, RUTH (*Kindergarten*).....(Mhtn) New York City  
 Packer Institute, Brooklyn, 1895-1896.  
 § Also a candidate for the B.S. degree.     ¶ Also a candidate for the A.B. degree,  
 \*\* Candidate for the B.S. degree only.



- SCHAUFFLER, CLARA ELIZABETH (*Domestic Science*).....New Rochelle, N. Y.
- § SCHWERIN, NETTIE PICARD (Mrs.) (*Elementary Teaching*).....(Mhtn) New York City
- § SEWARD, ELIZABETH KLIMBER (*Secondary Teaching*).....(Mhtn) New York City
- ! SEYMOUR, JOSEPHINE (*Latin*).....(Bklyn) New York City  
Adelphi College, 1902.
- ‡ SHARPLESS, ELINORE RACHEL (*Mathematics*).....Passaic, N. J.  
Wells College, A.B., 1900.
- SHERRICK, MARY WEIMER (*Kindergarten*).....Lock Haven, Pa.  
Wilson College, Chambersburg, Pa., 1887-1890.  
State Normal School, Lock Haven, Pa., 1901-1902.
- SIMONS, LETITIA WILLIS (*Domestic Science*).....Port Chester, N. Y.  
Woman's College, Baltimore, Md., A.B., 1901
- § SMITH, ETTA LUCY (*Kindergarten*).....Lee, Mass.  
Smith College, 1900-1902.
- § STEELE, MINNIE LOUISE (*Mathematics and English*).....(Mhtn) New York City
- STEIGER, KATHERINE FRENCH (*Domestic Art*).....Baltimore, Md.
- \*\*STEINERT, JOHN B. (*Manual Training*).....(Mhtn) New York City
- STEVENS, HARRIET LILLIAN (*Kindergarten*).....Elbridge, N. Y.
- ST. GEORGE, ALBERT H. (*Secondary Teaching*).....(Mhtn) New York City
- STOCKER, MARY AGNES (*Fine Arts*).....Gnadenhutzen, O.  
Cook County Normal School, Chicago, Ill., 1900.
- ! SWAN, BESSIE LOUISE (*Elementary Teaching*).....Mount Vernon, N. Y.
- ! THOMAS, MARTHA ELLEN (*Latin*).....Yonkers, N. Y.
- § THOMAS, MARY MAY (*Manual Training*).....Oxford, O.  
Oxford College, Oxford, O., B.L., 1901.
- ! TICE, WALTER ALVIN (*Elementary Teaching*).....(Mhtn) New York City
- § TRUBE, JESSIE MAUD (*Kindergarten*).....Hastings-on-Hudson, N. Y.
- ! VAN SLYKE, ALIDA M. (*German*).....New Baltimore, N. Y.
- § VER PLANCK, JUDITH C. (*History*).....Orange, N. J.  
Teachers College, Secondary and Elementary Diploma, 1898.
- \*\* VINCENT, GRACE.....Asbury Park, N. J.
- WARE, GERTRUDE H. (*Elementary Teaching*).....Hartford, Conn.  
State Normal School, New Britain, Conn., 1899.
- WELLS, FLORENCE E. (*Domestic Science*).....Saginaw, Mich.
- § WELSH, HELEN B. (*English*).....Hatboro', Pa.  
State Normal School, Philadelphia, Pa., 1883.
- WHITCOMB, FRED CAMPBELL (*Manual Training*).....North Vernon, Ind.  
Franklin College, Franklin, Ind., B.S., 1900.
- § WHITE, CHARLOTTE (*Kindergarten*).....Orange, N. J.
- WHITE, MARGARET CECILIA (*Music*).....Yonkers, N. Y.
- ! WICK, JEANNETTE M. (*German*).....(Q) New York City
- § WILKINSON, EDITH LAKE (*Fine Arts*).....Wheeling, W. Va.
- WINGFIELD, HENRIETTA BRISCOE (*Secondary Teaching*).....(Mhtn) New York City
- ‡ WOOD, MARGARET CHESTER (*English*).....(Mhtn) New York City  
Normal College, A.B., 1896.
- WOODRUFF, IVA MARY (*Manual Training*).....Cleveland, O.  
Kindergarten Training School, Cleveland, O., 1896.
- WOOLF, HENRY (*Manual Training*).....(Mhtn) New York City
- WORK, NORMAN PORTER (*Manual Training*).....Yonkers, N. Y.
- WYCKOFF, HARRIET ELVIRA (*Elementary Teaching*).....Cuba, N. Y.
- \*\*WYANT, ALICE MAY.....Elizabeth, N. J.
- WYMAN, MARY LOUISE (*Domestic Science*).....Manchester Center, Vt.
- ZIMMERMAN, KATE (*Domestic Science*).....Moray, Kan.  
Kansas State Agricultural College, B.S., 1900.

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‡ Also a candidate for the B.S. degree.

! Also a candidate for the A.B. degree.

‡ Also a candidate for the A.M. degree.

\*\* Candidate for the B.S. degree only.

## JUNIOR CLASS

- ACKEN, EVA ADALENE (*Elementary Teaching*).....(Bklyn) New York City  
State Normal School, Jamaica, N. Y., 1900-1903.
- ADAMS, EDITH SHERWIN (*Physical Education*)..... Helena, Mont.  
Leland Stanford, Jr., University, 1896-1897.
- AGNEW, THOMAS, JR. (*Elementary Teaching*).....Bloomfield, N. J.
- ‡ AYRES, FLORENCE (*Elementary Teaching*).....Newark, N. J.
- BABB, LAURA VIRGINIA (*Domestic Art*).....Columbus, O.
- BAMBERGER, ALICE CLARA JUDITH (*Kindergarten*).....(Mhtn) New York City  
Barnard College, A.B., 1903.
- BARNES, CARRIE VIVIAN (*Elementary Teaching*).....(Mhtn) New York City
- ‡ BASSETT, ELIZABETH WADDINGTON (*Secondary Teaching*).....(Mhtn) New York City  
Normal College, A.B., 1901.
- ‡ BEARDSLEY, MARY ALLIS (*Elementary Teaching*).....Hartford, Conn.  
State Normal School, New Britain, Conn., 1898-1900.
- ‡ BEERS, FLORENCE EVELYN (*Secondary Teaching*).....(Q) New York City  
Mt. Holyoke College, 1894-1896.
- ‡ BENNETT, GEORGINA GRACE (*Secondary Teaching*).....Hackensack, N. J.
- BESWICK, JOHN CLARE (*Manual Training*).....New Bedford, Mass.
- ‡ BIGGIN, FLORENCE IRENE (*Secondary Teaching*).....Middleton, N. Y.
- BINZEL, ALMA LOUISE (*Kindergarten*).....Beaver Dam, Wis.  
State Normal School, Milwaukee, 1892-1894.
- BINZEL, CORA ELLA (*Domestic Science*).....Beaver Dam, Wis.
- BLAKE, CORNELIA DOUGLAS (*Manual Training*).....Talladega, Ala.  
State Normal College, Florence, Ala., 1897-1898.
- BOICE, CARRIE LOUISE (*Domestic Art*).....Kennett Square, Pa.  
State Normal School, Westchester, Pa., 1887-1889.
- ‡ BOVARD, LUELLA L. (*Secondary Teaching*).....Port Chester, N. Y.
- BRADY, ANNA ROSE GERTRUDE (*Kindergarten*).....Stapleton, S. I.  
State Normal School, Trenton, N. J., 1898-1901.
- BRISON, MARY J. (*Fine Arts*).....(Mhtn) New York City
- ‡ BRONNER, GUSSIE FOX (*Elementary Teaching*).....Louisville, Ky.  
Normal School, Louisville, Ky., 1899-1901.
- BROOKS, FLORENCE (*Domestic Science*).....(Mhtn) New York City  
Smith College, B.L., 1900.
- BROOKS, MARY ELIZABETH (*Elementary Teaching*).....(Bklyn) New York City
- ‡ BROWN, ANN ELIZA (*Secondary Teaching*).....Port Richmond, N. Y.
- BROWNE, THOMAS JAMES (*Physical Education*).....Germantown, Pa.  
Y. M. C. A. Training School, Springfield, Mass., 1896-1899.  
Boston Normal School of Gymnastics, 1899-1900.
- ‡ BUCHER, HERMAN (*Fine Arts*).....(Mhtn) New York City
- ‡ BUCKINGHAM, ELIZABETH (*Secondary Teaching*).....(Mhtn) New York City
- ‡ BYRNE, MARGARET CECILIA (*Secondary Teaching*).....(Bklyn) New York City
- CALDWELL, ADA BERTHA (*Fine Arts*).....Brookings, S. D.
- CHENEY, GEORGE WALKLEY (*Manual Training*).....(Bklyn) New York City  
State Normal School, New Paltz, N. Y., 1902-1903.  
State Normal School, Jamaica, N. Y., 1899-1902.
- ‡ CHURCH, MARION E. (*Elementary Teaching*).....Passaic, N. J.
- ‡ CLARE, MARY ELEANOR (*Secondary Teaching*).....(Mhtn) New York City  
Normal College, 1885-1889.
- CLARKE, MYRA BREWSTER (*Domestic Science*).....(Mhtn) New York City  
State University, Washington, A.B., 1900.
- ‡ COHEN, HELEN NESSA (*Secondary Teaching*).....(Mhtn) New York City
- COLWELL, RACHEL HARTSHORNE (*Domestic Science*).....Granville, O.  
Denison University, Granville, O., 1895-1897.

‡ Also a candidate for the B.S. degree.

‡ Also a candidate for the A.B. degree.

- COMFORT, MARY READ (*Fine Arts*).....(Bklyn) New York City  
 CONGER, DELLA L. (*Kindergarten*)..... New Brunswick, N. J.  
 | CONOVER, GRACE MORRELLE (*Secondary Teaching*)..... (Mhtn) New York City  
 | COOLEY, HELEN W. (*Secondary Teaching*)..... (Mhtn) New York City  
 COTTER, MARY AGNES (*Secondary Teaching*).....Plattsburgh, N. Y.  
 State Normal School, Plattsburgh, N. Y., 1898-1901.
- COULLING, MARTHA W. (*Fine Arts*).....Richmond, Va.  
 Peabody Normal School, Nashville, Tenn., 1885-1887.
- CRANE, ELLA E. (*Secondary Teaching*).....Flushing, N. Y.  
 § CRAWFORD, RICHARD MCLEOD (*Fine Arts*).....Greensboro, N. C.  
 CRUIKSHANK, LAURA SELINA (*Secondary Teaching*).....(Bklyn) New York City  
 | DAY, ELIZABETH (*Secondary Teaching*)..... (Mhtn) New York City  
 § DEAN, SARAH ELIZA (*Domestic Science*)..... Ferrisburg, Vt.  
 University of Vermont, Burlington, 1901-1903.
- § DEYO, LOUIS DEWITT (*Secondary Teaching*).....New Paltz, N. Y.  
 | DIETZ, EDITH AUGUSTA (*Secondary Teaching*)..... (Mhtn) New York City  
 DODGE, STELLA VAN VLIET (*Domestic Science*).....Syracuse, N. Y.  
 Syracuse University, 1885-1888.  
 Boston Cooking School, Boston, Mass., 1898-1899.
- § DOLAN, PATRICIA MARIA (*Elementary Teaching*).....(Mhtn) New York City  
 DONALDSON, SADELLA MARIE (*Elementary Teaching*).....Aberdeen, Miss.  
 Normal School, Tuskegee, Ala., 1899-1902.
- DOUGLAS, ISABEL RANDOLPH (*Music*).....(Mhtn) New York City  
 | DRAPER, ALICE OLIVE (*Secondary Teaching*)..... (Mhtn) New York City  
 DURANT, AGNES LACY (*Secondary Teaching*).....(Mhtn) New York City
- § ERDWURM, ELSIE (*Elementary Teaching*).....Jersey City, N. J.  
 Cornell University, Ithaca, N. Y., 1901-1902.
- § ESHBAUGH, MARY (*Domestic Science*).....(Mhtn) New York City  
 Smith College, 1896-1898.
- EVANS, MARY (*Domestic Science*).....St. Louis, Mo.  
 Des Moines College, Des Moines, Iowa, 1891-1892.
- § EVANS, SUSAN IDA (*Elementary Teaching*).....Denton, Tex.  
 Normal School, Denton, Texas, B.S., 1894.
- | FALION, GEORGE MARCUS (*Secondary Teaching*).....(Bklyn) New York City  
 FARLOW, FLOE ANNIE (*Elementary Teaching*).....Milroy, Ind.  
 Central Normal College, Danville, Ind., 1891-1893.  
 Indiana State Normal School, Terre Haute, Ind. 1894-1900.  
 Colorado State Normal School, Greeley, Col., Pd.B., 1902.
- | FARRELLY, GRACE MARIE (*Secondary Teaching*).....(Mhtn) New York City  
 FENTON, JOHN W. (*Elementary Teaching*).....(Mhtn) New York City  
 FISH, EDITH B. (*Kindergarten*).....Hempstead, N. Y.  
 Packer Collegiate Institute, Brooklyn, N. Y., 1887-1892.
- § FISHER, LOUISE MARION (*Physical Education*).....(Mhtn) New York City  
 Packer Collegiate Institute, Brooklyn, N. Y., 1892-1894.  
 State Normal School, Bridgewater, Mass., 1894-1898.  
 Vassar College, 1902-1903.
- § FITCH, ELLICE HEATON (*Kindergarten*).....(Mhtn) New York City  
 Barnard College, A.B., 1903.
- § FITZPATRICK, EDWARD AUGUSTUS (*Secondary Teaching*)..... (Mhtn) New York City  
 | FLETCHER, SALLIE FAULKNER (*Secondary Teaching*).....(Bklyn) New York City  
 | FORMAN, ANITA GRACE (*Secondary Teaching*).....(Mhtn) New York City  
 § FORREST, NATALIE STERNBERG (*Domestic Science*).....(Mhtn) New York City  
 Barnard College, 1900-1902.

| Also a candidate for the A.B. degree.

§ Also a candidate for the B.S. degree

- § FRANCIS, CAROLYN L. (*Elementary Teaching*).....Honeoye Falls, N. Y.  
 § FRANKLIN, MARION (*Secondary Teaching*).....(Mhtn) New York City  
 § GARDNER, MARY LOUISE (*Elementary Teaching*).....Cleveland, O.  
 Lake Erie College, Painesville, O., 1892-1895.  
 GLANTON, CORDELIA VIRGINIA (*Manual Training*).....Newman, Ga.  
 § GOULD, NONA (*Secondary Teaching*).....Poughkeepsie, N. Y.  
 Cook's Collegiate Institute, Poughkeepsie, 1880-1883.  
 Teachers College, 1889-1890.  
 Vassar College, 1901-1902.  
 GOWANS, ELIZABETH (*Fine Arts*).....Pontiac, N. Y.  
 § GRAHAM, MARIA DANIEL (*Secondary Teaching*).....Warrenton, N. C.  
 Peabody Normal College, Nashville, Tenn., 1893-1895.  
 § GRANT, EMMA COLLIER (*Kindergarten*).....Summit, N. J.  
 § HANDY, EDITH BERKELEY (*Secondary Teaching*).....(R) New York City  
 § HASBROUCK, MARTIN (*Elementary Teaching*).....Paterson, N. J.  
 HASTY, PHILIP S. (*Manual Training*).....Lansing, Mich.  
 Michigan Agricultural College, 1899-1901.  
 § HAYNES, ALICE FENTON (*Kindergarten*).....Montreal, Can.  
 HETSCHER, CLARA M. (*Fine Arts*).....Yreka, Cal.  
 State Normal School, Chico, Cal., 1901-1903.  
 HIBBARD, FRANCES HENRIETTA (*Elementary Teaching*).....Montreal, Can.  
 HILGEN, EDWARD FRED ADOLPH (*Manual Training*).....Chicago, Ill.  
 HILL, CORA M. (*Elementary Teaching*).....Cobleskill, N. Y.  
 Claverack College, Ph.B., 1887.  
 HILL, FLORENCE A. (*Domestic Art*).....Chateaugay, N. Y.  
 § HOCHHEIMER, HELEN ALICE (*Secondary Teaching*).....(Mhtn) New York City  
 § HOFFMAN, MARGIE ETHEL (*Secondary Teaching*).....(Bklyn) New York City  
 HOOD, MARY CHALMERS (*Manual Training*).....Florence, Ala.  
 Synodical College, Florence, Ala., 1879-1885.  
 Cooper Union, New York City, 1895-1896.  
 School of Applied Design, New York City, 1886-1897.  
 HOWE, DELARUE KIPLING (*Elementary Teaching*).....Roselle, N. J.  
 Wellesley College, B.S., 1893.  
 Barnard College, 1896-1897.  
 § HUNTING, ELLA (*Elementary Teaching*).....Hartford, Conn.  
 State Normal School, New Britain, Conn., 1894-1896.  
 § HUTCHINSON, EMILIE JOSEPHINE (*Secondary Teaching*).....(Bklyn) New York City  
 IRVING, SYLVIA (*Elementary Teaching*).....(Mhtn) New York City  
 Brooklyn Training School for Teachers, 1895-1896.  
 JAMES, CLARA CHANEY (*Elementary Teaching*).....Oshkosh, Wis.  
 Normal School, Oshkosh, Wis., 1871-1882.  
 Kindergarten Training School, St. Louis, Mo., 1882-1883.  
 JONES, HARRIET HANKS (*Domestic Science*).....Bloomfield, N. J.  
 § JONES, HARRIET LOUISE (*Elementary Teaching*).....(Mhtn) New York City  
 JONES, MARY ELLEN (*Elementary Teaching*).....Pishing Creek, Pa.  
 Bloomsburg State Normal School, M.E., 1897.  
 Dickinson Seminary, Williamsport, B.S., 1900.  
 § KAPLAN, CARRIE (*Secondary Teaching*).....(Mhtn) New York City  
 § KENNEDY, ANNA JOSEPHINE (*Secondary Teaching*).....(Bklyn) New York City  
 § KIBBY, LILIAN (*Secondary Teaching*).....Richfield Spa, N. Y.  
 KIMBALL, ALICE APPLETON (*Kindergarten*).....Presque Isle, Me.  
 § KRUSE, AMY (*Secondary Teaching*).....Hoboken, N. J.  
 § LAWRENCE, LILLIE M. (*Secondary Teaching*).....Lebanon, N. H.  
 Normal School, Framingham, Mass., 1891-1893.  
 § LEE, MARY DAY (*Secondary Teaching*).....(Mhtn) New York City  
 LEMMON, FRANCES ANTOINETTE (*Fine Arts*).....Oberlin, O.  
 Lake Erie College, Painesville, O., 1884.

§ Also a candidate for the B.S. degree.

|| Also a candidate for the A.B. degree.



- § LUDWIG, AUGUSTUS (*Secondary Teaching*).....(Bklyn) New York City  
 LYON, EDITH ELLEN (*Fine Arts*).....Yonkers, N. Y.  
 § MCAFEE, HARRIET (*Secondary Teaching*).....Pewee Valley, Ky.  
 Hampton College, Louisville, Ky., A.B., 1889.  
 § McDOWELL, LAURA E. (*Elementary Teaching*).....Penn Yan, N. Y.  
 State Normal College, Albany, N. Y., 1897.  
 § McEVoy, ELIZABETH (*Mathematics*).....(Mhtn) New York City  
 § MCGAHEY, MARY WILSON (*Manual Training*).....Lincoln, Neb.  
 University of Nebraska, A.B., 1898.  
 McKAY, MARGARET ELLIOT (*Elementary Teaching*).....Wilmington, Del.  
 MADDOCK, CATHERINE LORETTA (*Kindergarten*).....(Mhtn) New York City  
 § MAEDER, EMILY LYDIA (*Domestic Science*).....(Mhtn) New York City  
 MARTIN, ALICE (*Kindergarten*).....Plattsburgh, N. Y.  
 State Normal School, Plattsburgh, N. Y., 1898-1900.  
 § MATHER, IDA E. (*Kindergarten*).....Elizabeth, N. J.  
 State Normal School, Trenton, N. J., 1899-1901.  
 § MATHEWS, JANE (*Secondary Teaching*).....Oswego, N. Y.  
 Oswego Normal School, Oswego, N. Y., 1880-1884.  
 § MAXSON, ARTHUR RAY (*Secondary Teaching*).....Winter Park, Fla.  
 Rollins College, Winter Park, Fla., A.B., 1900.  
 § MAXWELL, CHARLES R. (*Secondary Teaching*).....Waitsfield, Vt.  
 Norwich University, Northfield, Vt., 1895-1896.  
 MEACHAM, BIRDIE ELIZABETH (*Music*).....Anderson, Tex.  
 MEEKER, MADELINE (*Fine Arts*).....(Mhtn) New York City  
 MILLER, BERTHA MELVILLE (*Domestic Science*).....Franklin, Ind.  
 Franklin College, Franklin, Ind., Ph.B., 1900.  
 MILLER, MARY CLARA (*Domestic Art*).....Pottstown, Pa.  
 MOONEY, MARY AGNES (*Music*).....(Mhtn) New York City  
 § MOORE, EDNA M. (*Kindergarten*).....Philadelphia, Pa.  
 MOORE, GEORGE AMOS (*Manual Training*).....French Creek, W. Va.  
 MORROW, ROSE ROBINSON (*Kindergarten*).....Summit, N. J.  
 MORRISON, EMILY REBECCA (*Secondary Teaching*).....(Mhtn) New York City  
 § MOTT, ISABELLE (*Secondary Teaching*).....(Mhtn) New York City  
 § MUNROE, ELEANORA LOUISE (*Secondary Teaching*).....(Mhtn) New York City  
 MURPHY, EDNA NEVILLE (*Fine Arts*).....Yonkers, N. Y.  
 New York School of Applied Design, 1901-1903.  
 § NEWPHER, HELEN (*Physical Education*).....Cleveland, O.  
 Cleveland Kindergarten Training School, Cleveland, O., 1895-1897.  
 NICHOLAS, EMILY (*Elementary Teaching*).....Newark, N. J.  
 State Normal School, Trenton, N. J., 1890-1892.  
 NORTHAM, AGNES B. (*Elementary Teaching*).....Chatham, Conn.  
 State Normal School, Willimantic, Conn., 1897-1899.  
 OAKLEY, FRANCES H. (*Fine Arts*).....Huntington, N. Y.  
 OLIVER, BERNICE (*Manual Training*).....San José, Cal.  
 State Normal School, San José, Cal., 1896-1900.  
 OLIVER, JOSEPH (*Manual Training*).....Nanticoke, Pa.  
 State Normal School, East Stroudsburg, Pa., 1896.  
 § ORNDUFF, IDA CAROLINE (*Manual Training*).....Carthage, Mo.  
 OSBORNE, ETHEL BRADSHAW (*Domestic Science*).....Salem, Mass.  
 OWEN, MAE (*Domestic Science*).....Los Angeles, Calif.  
 OWEN, MARY GRACE (*Elementary Teaching*).....London, England  
 Blackheath Kindergarten, London, England, 1896-1897.

§ Also a candidate for the B.S. degree.

|| Also a candidate for the A.B. degree.

- † PALLISER, HELEN LETITIA (*Secondary Teaching*).....Dobbs Ferry, N. Y.  
 † PARKER, LAURA HILLIER (*Elementary Teaching*).....(Mhnt) New York City  
 ‡ PATTEN, JULIA MARY (*Manual Training*).....Middletown, Conn.  
     Claverack College, A.B., 1881.  
     Pratt Institute, 1890-1891.  
 POOTS, ANNA (*Elementary Teaching*).....Berea, O.  
     Baldwin University, 1884-1887.  
 PRINCE, SARA ELIZABETH (*Kindergarten*).....Oberlin, O.  
     Oberlin Kindergarten Training School, 1897-1899.  
 ‡ PROCTOR, ROBERT HUNTINGTON (*Secondary Teaching*).....(Q) New York City  
     Cooper Institute, B.S., 1903.  
 RANKIN, ANNA LOUISE (*Music*).....Portland, Ore.  
 RAYNOLDS, PANSY SARA (*Domestic Science*).....Carson City, Colo.  
 † REEDER, RUTH ANGELINA (*Secondary Teaching*).....Hastings, N. Y.  
 REPPENHAGEN, LEILA (*Kindergarten*).....Highland Falls, N. Y.  
 ‡ ROGERS, ANNA D. (*Secondary Teaching*).....Bennington, Vt.  
 ‡ ROGERS, SARAH LOGAN (*Elementary Teaching*).....Louisville, Ky.  
 ‡ ROLLINSON, EDITH HOYT (*Elementary Teaching*).....Rahway, N. J.  
 ‡ ROSE, GLADYS MARY (*Secondary Teaching*).....(Mhnt) New York City  
 RUSSELL, ELIZABETH LINCOLN (*Domestic Science*).....New Bedford, Mass.  
     Smith College, B.L., 1903.  
 SCHULTZ, NINA (*Secondary Teaching*).....(Mhnt) New York City  
 † SCOTT, IZORA (*Secondary Teaching*).....(Mhnt) New York City  
     Kansas Normal College, 1887.  
 ‡ SEATON, GRACE MARIA (*Elementary Teaching*).....(Mhnt) New York City  
     State Normal College, Albany, N. Y., 1893.  
 SHEIB, LEONORA W. (Mrs.) (*Music*).....Natchitoches, La.  
     Millersburg Female College, 1880-1882.  
     Hollins Institute, Hollins, Va., 1882-1884.  
 SIMPSON, MINA ANNA (*Domestic Art*).....Hoosick Falls, N. Y.  
     Pratt Institute, Brooklyn, N. Y., 1902-1903.  
 ‡ SKINNER, NORA TAYLOR (*Domestic Science*).....Washington, D. C.  
     Barnard College, 1901-1902.  
     Woman's College, Baltimore, Md., 1902-1903.  
 SLOAN, STURMAN GRACE (*Kindergarten*).....Baltimore, Md.  
 † SMITH, ALICE VAN WOERT (*Secondary Teaching*).....(Mhnt) New York City  
 SMITH, EVELYN CECILE (*Domestic Art*).....Plattsburgh, N. Y.  
 † SMITH, LESLIE BREWSTER (*Mathematics*).....Mount Vernon, N. Y.  
 SMITH, LINDA MAY (*Music*).....Borodino, N. Y.  
     Cortland Normal School, Cortland, N. Y., 1892-1895.  
 † SNYDER, ARRIETTA (*Secondary Teaching*).....Newburgh, N. Y.  
     Wellesley College, 1891-1893.  
     State Normal College, Albany, N. Y., 1894-1896.  
 † SOLOMON, CHARLOTTE LOUISE (*Secondary Teaching*).....Syracuse, N. Y.  
 § SOWLES, ELIZABETH BECKWITH (*Secondary Teaching*).....Plattsburgh, N. Y.  
     State Normal School, Plattsburgh, N. Y., 1897-1900.  
 † SPARKMAN, LYDA HOLT (*Secondary Teaching*).....Paterson, N. J.  
 † STABER, HILDA LOUISE (*Secondary Teaching*).....(Bklyn) New York City  
 STAFFORD, CLARA BENNETT (*Fine Arts*).....Manchester, Vt.  
 START, MARGARET HUBBELL (Mrs.) (*Music*).....Chazy, N. Y.  
 STEELE, ELLEN (*Elementary Teaching*).....Portland, Conn.  
     State Normal School, New Britain, Conn., 1893-1895.  
 ‡ STETSON, ARTHUR DANA (*Secondary Teaching*).....(Bklyn) New York City  
     State Normal School, Potsdam, N. Y., 1876-1879.  
 † ST. GEORGE, ALBERT H. (*Secondary Teaching*).....(Mhnt) New York City  
 STOCKBRIDGE, ANNA MAY (*Domestic Art*).....Northampton, Mass.  
     Mt. Holyoke College, 1883-1884.

‡ Also a candidate for the A.B. degree.

§ Also a candidate for the B.S. degree.

- STONE, CLIFF WINFIELD (*Elementary Teaching*).....Oshkosh, Wis.  
State Normal School, Oshkosh, Wis., 1896-1899.  
Chicago University, 1900.  
Indianapolis University, 1902-1903.
- STUART, FLORA (*Elementary Teaching*).....Wytheville, Va.
- TAMAGNO, GRACE MARY (*Physical Education*).....(Mhtn) New York City
- ‡ TAPLIN, EARLE GARFIELD (*Secondary Teaching*).....Oswego, N. Y.  
State Normal School, Oswego, N. Y., 1898-1902.
- ‖ TATTERSHALL, ANNA SARAH (*Secondary Teaching*).....White Haven, Pa.
- TAYLOR, BESSIE RHEATON (*Secondary Teaching*).....Southport, Conn.  
Mt. Holyoke College, 1877-1881.
- TAYLOR, JESSIE ELMA (*Fine Arts*).....(Mhtn) New York City
- TELFORD, GRACE CATHERINE (*Domestic Science*).....Newburgh, N. Y.  
Mt. Holyoke College, 1901-1903.
- ‖ THORP, ANNA FRANCES MURIEL (*Secondary Teaching*).....Paterson, N. J.
- TINGES, KATE W. (*Kindergarten*).....Gettysburg, Pa.  
Kindergarten Training School, Baltimore, 1899-1900.
- ‡ TUCKER, ELEANOR SELDEN (*Elementary Teaching*).....Norfolk, Va.
- WAKELEE, MARGARET JOURNEYAY (*Kindergarten*).....Mt. Pleasant, Mich.  
Grand Rapids Kindergarten Training School, 1893-1897.
- WALLACE, RUTH (*Music*).....(Mhtn) New York City
- WATERBURY, AVIS (*Fine Arts*).....Augusta, Wis.  
State Normal School, River Falls, Wis., 1885.
- WEEMS, FRANCES (*Kindergarten*).....Roland Park, Md.  
Baltimore Kindergarten Training School, 1895-1899.
- WEIDMAN, EDITH I. (*Domestic Art*).....Easton, Pa
- ‖ WELLE, EDITH (*Secondary Teaching*).....Paterson, N. J.
- ‡ WHITLEY, MARY THEODORA (*Secondary Teaching*).....Ottawa, Canada
- WHITNEY, NORA BELLE (*Secondary Teaching*).....Copenhagen, N. Y.  
State Normal School, Potsdam, N. Y., 1884-1888.
- WHITTEMORE, AMY POMEROY (*Domestic Art*).....East Orange, N. J.
- WILLARD, IDA MAY (*Manual Training*).....Geneseo, N. Y.  
State Normal School, Geneseo, N. Y., 1884-1889.
- WILLIAMS, SUSAN ELIZABETH (*Elementary Teaching*).....(Mhtn) New York City
- WOODLE, CORNELIA SHELDON (*Domestic Science*).....Altoona, Pa.  
Chicago Normal School, Englewood, 1898-1899.
- § WORTH, WILLIAM A. (*Secondary Teaching*).....(Mhtn) New York City  
State Normal School, Oswego, N. Y., 1899.
- YOUNG, LUCY GARDNER (*Elementary Teaching*).....Rome, N. Y.

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## Collegiate Students

## SOPHOMORE CLASS

- ABELOW, SAMUEL P.....(Mhtn) New York City
- ALLEN, ANNA BESSIE.....(Bklyn) New York City
- ALLEN, ETHEL BUEL.....Geneva, N. Y.
- BACK, LILLIAN.....East Orange, N. J.
- BROWN, MABEL EDNA.....Campville, Conn.
- CHAPMAN, EDITH D.....(Q) New York City
- COLEMAN, CLATINA.....King's Ferry, N. Y.
- DEACON, HELEN GRAZIELLA.....(Mhtn) New York City
- DEAN, MARTHA E.....Wilkesbarre, Pa.
- FORTMAN, AUGUSTA.....Union Hill, N. J.
- GILBERT, CLARA MARIA.....Pittsford, Vt.
- GILL, LULU GENEVIEVE.....(R) New York City
- GILLETTE, KATHERINE.....Mount Vernon, N. Y.
- HATCH, WILLIAM ANDREW.....Potsdam, N. Y.
- HOPE, EDNA EARLE.....Macon, Ga.
- HOWELL, ABBY STOUT.....New Brunswick, N. J.

§ Also a candidate for the B.S. degree.

‖ Also a candidate for the A.B. degree

HUGHES, MARY TERESA.....	(Mhtn) New York City
KIMBALL, ALICE APPLETON.....	Presque Isle, Me.
KREINER, LILLIAN MAY.....	Newark, N. J.
LIPKE, JOSEPH.....	(Mhtn) New York City
MACDONALD, CATHERINE.....	(Mhtn) New York City
McMAHON, ANNA.....	(Mhtn) New York City
MEAD, ELLA.....	(Bklyn) New York City
MEADE, REBECCA PAULDING.....	(Mhtn) New York City
MOHR, ALICE K. (Mrs.).....	(Mhtn) New York City
MURPHY, JANE FRANCES.....	Richmond Hill, N. Y.
MURRAY, JENNIE ERSKINE.....	(Mhtn) New York City
OTT, AMELIA HENRIETTA.....	(Mhtn) New York City
OWEN, KATHERINE BOWDITCH.....	Buckland, Conn.
PASCH, ANNA KATHERINE.....	Preston, La.
PEYSER, ETHEL ROSE.....	(Mhtn) New York City
REILLY, KATHERINE ALOYSIA.....	(Mhtn) New York City
RICHARDS, FLORENCE S.....	Minersville, Pa.
ROTH, LINA ELISE.....	(Mhtn) New York City
RUSSAK, LOTTA BERNHARDINE.....	(Mhtn) New York City
SILLIMAN, FLORENCE ELECTA.....	(Mhtn) New York City
SPRINGER, ADA.....	East Las Vegas, New Mexico
TASCHE, JUNE.....	(Mhtn) New York City
TOEPP, LAURENCE.....	New Brighton, S. I.
TREAT, MARION.....	Chelsea, Mass.
VOXMAN, WILLIAM.....	(Mhtn) New York City
WALLING, AGNES.....	Ocean Grove, N. J.
WARNER, ELIZABETH HAYWARD (Mrs.).....	(Mhtn) New York City
WAUGH, LOUISE.....	Johnstown, Pa.
WHITE, EDITH MALCOLM.....	Ossining, N. Y.
WOOD, GLADYS EVELYN.....	(Mhtn) New York City
WOODRUFF, MABELLE.....	Passaic, N. J.

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## FRESHMAN CLASS

ATWATER, CLARA.....	(Bklyn) New York City
BAGNASCO, JOSIE M.....	Astoria, L. I.
BRUSH, BESSIE.....	Huntington, L. I.
CURTIS, MARY WROE.....	Ogdensburg, N. Y.
CUTTING, FLORA LOUISE.....	(Bklyn) New York City
DE BOER, JOSEPHINE MARIE.....	Yonkers, N. Y.
DONALDSON, IDA LEONORA.....	(Mhtn) New York City
DUGGAN, ALFRED JAMES.....	Long Island City, N. Y.
ELLIOT, FRANCES COTTRELL.....	(Mhtn) New York City
ENGELBREKT, ANNA CECILIA.....	New Rochelle, N. Y.
GEBHART, HELEN.....	Wawasa, Wis.
GUYER, SARAH H.....	Waverly, N. Y.
HOEXTER, HERMAN HIRSCH.....	(Br) New York City
HOPKINS, EMMA BARKSDALE.....	Savannah, Ga.
JOHNSTON, WILLIAM HAZLETT.....	(Bklyn) New York City
KAGAN, FANNIE.....	Lakeville, Mass.
KLAUBER, BELLE.....	(Mhtn) New York City
KNAPP, DOROTHEA.....	Yonkers, N. Y.
MAGUIRE, HELAINE.....	(Mhtn) New York City
MIDDLETON, FLORENCE.....	(Mhtn) New York City
RIONDA, ELENA.....	(Mhtn) New York City
SHOSTAC, FRANCES.....	(Mhtn) New York City
SIMMONS, MARY PILKINGTON.....	Yonkers, N. Y.
SOMERVILLE, CLARA MAUD.....	Aliceville, Ala.
WEBBER, HATTIE.....	(Mhtn) New York City
WEEKS, ESTELLA F.....	(Q) New York City



WILCOX, WINIFRED.....	Yonkers, N. Y.
WILLSON, ALBERT CLARK.....	Noroton, Conn.

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## SPECIAL STUDENTS

ADSIT, RUTH ANN.....	Cherokee, Ia.
ANGELL, MERTON A.....	(Mhtn) New York City
ARMAND, LOUIS JULES.....	(Mhtn) New York City
BRODHEAD, HARRIET HAYS.....	(Mhtn) New York City
BROWNSCOMBE, FREDERICK JOHN.....	Petrolia, Canada
CHATFIELD, HAZEN.....	(Mhtn) New York City
CLARK, MARGARET ELIZABETH.....	Tenafly, N. J.
CLINE, CONSTANCE.....	Concord, N. C.
CLOWES, MARY S.....	Hempstead, N. Y.
CRAIG, AGNES HOUSTON.....	Amity, N. Y.
DAMON, LOUIS A.....	Napa, Calif.
DAVIDSON, MARY ELIZABETH SPENCE.....	(Mhtn) New York City
DERBISHIRE, CATHERINE EUGENIA.....	Sherbrooke, Canada
DIAMOND, FRANK J.....	Tonawanda, N. Y.
DU BOIS, SOLOMON E.....	(Mhtn) New York City
FAIR, MARY NANCE.....	Newberry, S. C.
FRIESS, LOTTIE LUCY.....	(Br) New York City
ISLES, MAUDE M.....	(Mhtn) New York City
JOHNSON, AMY E.....	Guthriesville, Pa.
JONES, ZAY.....	Augusta, Ga.
KARNER, MARY LOUISA.....	Plainfield, N. J.
MCDONALD, MARY ISABEL.....	(Mhtn) New York City
MORRIS, MARIE.....	Meadville, Pa.
PALEN, LOUIS E.....	(Mhtn) New York City
PANAYOTOVA, DONKA.....	Starazagora, Bulgaria
PARMELEE, SUSAN.....	Toledo, O.
PARRIS, HUBERT ASTLEY ST. AUBYN.....	Barbadoes, West Indies
PRENTICE, IDA WHITCOMB.....	Worcester, Mass.
SHEPPERSON, MILDRED.....	Columbus, Ga.
SIMPSON, ANNIE BACHARD.....	(Mhtn) New York City
STRANGE, MILLICENT.....	London, Eng.
STRAYER, CORA BELL (Mrs.).....	(Mhtn) New York City
STUBBS, H. MAY ( <i>Fine Arts</i> ).....	West Philadelphia, Pa.
THORBURN, SUSAN GRAY.....	(Mhtn) New York City
TURNER, LAURETTE PINTARD.....	(Mhtn) New York City
WHITLOCK, MAUD.....	Los Angeles, Calif.
WILLIAMS, SUSAN WARD.....	Greenville, S. C.
ZIMMERMAN, HELEN.....	Indianapolis, Ind.

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*Course in Hospital Economics*

AHRENS, MINNIE H.....	Chicago, Ill.
Illinois Training School for Nurses.	
BAKER, GRACE E.....	Trenton, Mo.
Illinois Training School for Nurses, 1898.	
BALCOM, HELEN.....	Chicago, Ill.
COLEMAN, ANNIE M.....	Saginaw, Mich.
Toronto Training School for Nurses, 1888.	
DOUGLAS, EFFIE ALLEN.....	Galt, Canada
Homeopathic Hospital, Buffalo, N. Y., 1901.	
JEWELL, ISABELLA E.....	London, Canada
Massachusetts General Hospital, Boston, 1897.	
Massachusetts Lying-in Hospital, Boston, 1901.	
KELLY, HELEN WINIFRED.....	Milwaukee, Wis.
Illinois Training School for Nurses.	
KRUEGER, MATHILD HELEN.....	Munch, Wis.
Illinois Training School for Nurses 1897.	

MACLENNAN, CHRISTINA.....	Toronto, Canada
PARISH, SUSAN GRAHAM.....	Rindsville, N. C.
	St. Luke's Hospital, South Bethlehem, Pa., 1897.
	Sloane Maternity Hospital, New York City, 1899.
PATERSON, MARY H.....	Westerly, R. I.
	Rhode Island Training School for Nurses, 1898.
PETERSON, WINONA H.....	St. Louis, Mo.
	Missouri Baptist Sanatorium Training School, 1898.
SHAW, FLORA MADELENE.....	Perth, Canada
	Montreal General Hospital, 1896.
STOTZ, MARIE MATHILDA.....	Dubuque, Ia.
	Finley Hospital Training School for Nurses.
WHEELER, MARY CURTIS.....	Quincy, Ill.

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## SUMMARY

*Candidates for Degrees and Diplomas*

I. Graduate Students:	
Candidates for Doctor's Diploma and Degree.....	34
"    "    Master's Diploma and Degree.....	63
"    "    Higher Diploma.....	2
	99
II. Professional Students:	
Candidates for Bachelor's Diploma:	
For Teaching in Secondary Schools.....	141
"    "    Elementary Schools.....	62
"    "    Kindergartens.....	41
"    "    Domestic Art.....	14
"    "    Domestic Science.....	39
"    "    Fine Arts.....	29
"    "    Manual Training.....	30
"    "    Music.....	13
"    "    Physical Education.....	5
Candidates for the Bachelor of Science Degree only.....	10
	384
III. Students in Collegiate Course:	
Sophomore Year.....	47
Freshman Year.....	30
	77
IV. Students not candidates for a Degree or Diploma:	
Special Students.....	35
Special Students in Hospital Economics.....	14
Auditors.....	5
	54
V. Students from other Faculties of the University:	
From the Faculty of Philosophy.....	56
"    "    "    Political Science.....	16
"    "    "    Pure Science.....	2
"    "    "    Applied Science.....	1
"    Columbia College.....	14
"    Barnard College.....	83
	172
Total Resident Students.....	786

## PUPILS IN TEACHERS COLLEGE SCHOOLS

*Horace Mann School*

High School.....	437 <sup>1</sup>
Grammar School.....	206
Primary School.....	219
Kindergarten.....	35
	897

*Speyer School*

Primary School.....	120
Kindergarten.....	40
	160
Total Pupils in Schools.....	1057

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 Extension Students (Teachers College registration only)..... 775
<sup>1</sup> 74 of Eighth grade.

NOVEMBER 19, 1903.

## SUMMER SESSION

1903

### ADMINISTRATIVE BOARD

NICHOLAS MURRAY BUTLER, Ph.D., LL.D.

*President of the University and Professor of Philosophy and Education*

JAMES EARL RUSSELL, Ph.D.

*Professor of the History of Education, Dean of Teachers College*

JAMES CHIDESTER EGBERT, Jr., Ph.D.

*Professor of Roman Archæology and Epigraphy, Director of the Summer Session*

### Faculty

MARY PERLE ANDERSON, B.S.	Nature Study
FRED WASHINGTON ATKINSON, Ph.D.	Philippine Islands
FRANKLIN THOMAS BAKER, A.M.	English Language and Literature
WILLIAM TENNEY BREWSTER, A.M.	English
VICTOR JOHN CHAMBERS, Ph.D.	Chemistry
WILBUR LUCIUS CROSS, Ph.D.	English
HENRY STODDARD CURTIS, Ph.D.	Physical Training
ANDREW WHEATLEY EDSON, A.M.	Education
JAMES CHIDESTER EGBERT, Jr., Ph.D.	Latin
CHARLES HUBERT FARNSWORTH.	Music
LIVINGSTON FARRAND, M.D.	Psychology
JEANNETTE BLISS GILLESPIE, A.B.	English
AMADEUS WILLIAM GRABAU, S.D.	Geology
WILLIAM HALLOCK, Ph.D.	Physics
WILLIAM ADDISON HERVEY, A.M.	German
MARI RUEF HOFER.	Music
ARTHUR CHARLES HOWLAND, Ph.D.	History
ABRAHAM VALENTINE WILLIAMS JACKSON, Ph.D., L.H.D.	English
JOSEPH JASTROW, Ph.D.	Psychology
ALVIN SAUNDERS JOHNSON, Ph.D.	Economics
ADAM LEROY JONES, Ph.D.	Philosophy
DANIEL JORDAN, B.Pd.	Romance Languages and Literatures
CAVALIER HARGRAVE JOUËT, Ph.D.	Chemistry
GEORGE SAWYER KELLOGG.	History of Art

CASSIUS JACKSON KEYSER, Ph.D.....	<i>Mathematics</i>
LOUIS AUGUSTE LOISEAUX, B.S....	<i>Romance Languages and Literatures</i>
NELSON GLENN MCCREA, Ph.D.....	<i>Latin</i>
JAMES MACLAY, Ph.D.....	<i>Mathematics</i>
JOHN ANGUS MACVANNEL, Ph.D.....	<i>Philosophy and Education</i>
EDMUND HOWD MILLER, Ph.D.....	<i>Chemistry</i>
GEORGE CLINTON DENSMORE ODELL, Ph.D.....	<i>English</i>
RUSSELL BURTON-OPITZ, M.D.....	<i>Physiology</i>
WATSON LEWIS SAVAGE, M.D.....	<i>Physical Training</i>
JAMES THOMSON SHOTWELL, Ph.D.....	<i>History</i>
FRANK LOUIS SOLDAN, LL.D.....	<i>Education</i>
RUDOLF TOMBO, Jr., Ph.D.....	<i>German</i>
RUDOLF TOMBO, Sr., Ph.D.....	<i>German</i>
FRANK LEO TUFTS, Ph.D.....	<i>Physics</i>
FREDERICK JAMES EUGENE WOODBRIDGE, A.M.....	<i>Philosophy</i>

#### Other Instructors

JOSEPH HERSHEY BAIR, A.M.....	<i>Psychology</i>
FLORENCE BALDWIN.....	<i>Education</i>
GUSTAV HERRMAN BOJUS.....	<i>Physical Training</i>
ARMOUR CALDWELL, A.B.....	<i>English</i>
FREDERICK VAN DYKE CRUSER.....	<i>Chemistry</i>
GEORGE CHRISTIAN OTTO HAAS, A.B.....	<i>English</i>
FREDERICK WILLIAM JUSTUS HEUSER.....	<i>German</i>
CHARLES HOLROYD.....	<i>Swimming</i>
ROBERT HARBISON HOUGH, A.M.....	<i>Physics</i>
MINNIE JACOBS.....	<i>Physical Training</i>
AUSTIN BAXTER KEEP, A.M.....	<i>History</i>
GEORGE HERBERT LING, Ph.D.....	<i>Mathematics</i>
WILLIAM HORACE NOYES.....	<i>Manual Training</i>
JESSIE CORINNE POND.....	<i>Manual Training</i>
CHARLES WILLIAM WEICK, B.S.....	<i>Manual Training</i>
LUCY HESS WEISER.....	<i>Manual Training</i>
GERTRUDE L. WOLFF, A.B.....	<i>Latin</i>

#### GENERAL STATEMENT

The fourth Summer Session of the University opened July 8, 1903, and closed August 19. The registration day for the Summer Session was July 6. Examinations for certificates were held on August 19.

Courses were offered in anthropology, biology, chemistry, economics, education, English (including rhetoric and composition), fine arts, geology, German, history, Latin, manual training, mathematics, music, Philippine Islands, philosophy, physical training, physics, physiology, psychology, and Romance Languages.

Each course consisted of thirty lectures or other exercises, or their equivalent in laboratory or field work. Credit for such courses in the



Summer Session as are accepted by the several Faculties of the University in partial fulfilment of the requirements for degrees or for teachers' diplomas, may only be claimed by those who sustained satisfactorily the examination at the conclusion of the course.

The tuition fee for the Summer Session is \$25, which covers two courses of instruction, the limit allowed by the regulations.

The usual matriculation fee of \$5 is charged to all students who join the University for the first time at the Summer Session. The Gymnasium fee of \$5, including the use of the gymnasium, a private locker, and the privilege of the swimming pool, is required of all students who take the practice course in physical training, or who make use of the swimming pool, but is optional for all others.

The Summer Session is open to men and women on equal terms.

For the Announcement of the Summer Session of 1904, which will open July 6, and offer a wide range of courses, or for information regarding dormitory accommodations, or board and lodging, address the Secretary of Columbia University, New York.

### **Summer Courses in Medicine**

For the first time a series of summer courses in Medicine for men was offered in 1903. Courses were given in Gynecology, General Medicine, Genito-Urinary Diseases, Laryngology, Diseases of Children, and Obstetrics.

This work will be continued in the summer of 1904, and persons interested are requested to apply for the announcement of the Summer Session in Medicine, which will be furnished without charge upon application to the Secretary of the University after February 1.

## REGISTER OF STUDENTS

### Summer Session

AARON, A. (REV.).....	Passaic, N. J. Augsburg College, Minneapolis, A.B., 1893.
AARON, A. (MRS.).....	Passaic, N. J.
ABBOTT, FREDERICK ALBERT.....	249 West 55th Street
ABBOTT, FREDERICK BANCROFT.....	Providence, R. I.....309 West 128th Street College of Emporia, B.S., 1900; M.S., 1902.
ABELOW, SAMUEL PHILIP.....	123 Seigel Street, Brooklyn
ABURATANI, JIROSHICHI.....	Kyoto, Japan.....700 Park Avenue Doshisha College, Kyoto (equiv. A.B.), 1894.
ACKERMAN, OSCAR WILSON.....	Ackermanville, Pa.....521 West 123d Street Normal School, East Stroudsburg, Pa., M.E., 1897.
ACKLEY, GRACE.....	370 West 116th Street
ADAIR, MARY HERBERT.....	Raritan, N. J.....1230 Amsterdam Avenue
ADAMS, NANCY JANE.....	47 East 21st Street
ADAMS, SHERRED WILLCOX.....	Charleston, W. Va.....1230 Amsterdam Avenue
AGNEW, IDA STANTON.....	Bloomfield, N. J.
AGNEW, THOMAS, JR.....	Bloomfield, N. J.
AHERN, MARY.....	129 East 90th Street Normal College, A.B., 1902.
ALDRICH, MAUDE.....	143 Sylvan Avenue, Newark, N. J. Mt. Holyoke College, A.B., 1902.
ALLEN, ANNA SLOAN (MRS.).....	701 Rahway Avenue, Elizabeth, N. J.
ALLEN, HARRY, JR.....	42 Cedar Place, Yonkers, N. Y.
AMELI, MARY JANE.....	1422 Pacific Street, Brooklyn
AMMERMAN, STEPHEN LEWIS.....	Wilkesbarre, Pa.....1145 Tinton Avenue, Bronx Borough Lafayette College, Ph.B., 1893; M.S., 1896.
ANTONIUS, LILY DOROTHY.....	80 West 91st Street
APPELL, DAISY ROSALIE.....	100 East 124th Street
APPELL, EUGENIE JEANNETTE.....	100 East 124th Street
ARCHBOLD, ANNIE ELIZABETH.....	146 West 124th Street
ARMENTROUT, LEONORA.....	Dallas, Texas.....106 West 105th Street Fort Worth University, A.B., 1896.
ARNOLD, ARTHUR DANIEL.....	Passaic, N. J. Dartmouth College, A.B., 1893; A.M., 1896.
ARNOLD, JAMES LORING.....	369 West 116th Street Columbia University, A.B., 1891. University of Leipzig, Ph.D., 1897.
ARTHUR, MARY.....	Nashville, Tenn.....416 West 118th Street University of Nashville, M.L., 1895.
ATWATER, CHARLES OGDEN.....	New Haven, Conn.....14 Manhattan Street
AU, LOLA MONTA.....	238th Street, Bronx Borough
AUERHAHN, FRANK ROBERT.....	139 Crystal Street, Brooklyn
AXTELL, FLORENCE JOSEPHINE.....	Hambletville, N. Y.....558 East 139th Street
AYRES, MARY STEVENS.....	430 West 118th Street Wellesley College, A.B., 1900.

- BABCOCK, CHARLES MONTGOMERY.....71 East 93d Street  
New York University, Pd.M., 1899.
- BABSON, RUTH.....Chelsea, Mass.....520 West 123d Street
- BACON, MARGARET ELLEN.....347 East 19th Street
- BADGLEY, IDA JANE.....163 South 9th Street, Brooklyn
- BAGENSTOSE, HARVEY LEE.....Mahanoy City, Pa.....457 West 123d Street  
Wesleyan University, A.B., 1900.
- BAKER, ELEANOR MAY.....Paterson, N. J.
- BALDWIN, SARAH LILIAN.....West Orange, N. J.  
Cornell University, A.B., 1902.
- BALLOU, FRANK WASHINGTON.....Potsdam, N. Y.....162 West 123d Street
- BANNON, MARY ELLEN.....58 Park Place, Brooklyn
- BARBER, CORA LIVINGSTON.....191 Lefferts Place, Brooklyn  
Adelphi College, A.B., 1901.
- BARBER, WINNIFRED B.....North Adams, Mass.....1230 Amsterdam Avenue
- BARNES, ELIZABETH MARIA.....Hartford, Conn.....1161 Amsterdam Avenue
- BARNES, HENRIETTA JULIA.....Duluth, Minn.....522 West 123d Street
- BARNUM, MADELENE DEMAREST.....522 Tenth Street, Brooklyn
- BARRY, HELEN CECILIA.....452 St. Nicholas Avenue
- BARTOL, GERTRUDE JOSEPHINE.....Brooklyn, N. Y.....1230 Amsterdam Avenue
- BASON, GEORGE.....Sayville, N. Y.
- BATTLE, MAMIE.....Atlanta, Ga.....1230 Amsterdam Avenue
- BATTLE, SUSIE H.....Atlanta, Ga.....1230 Amsterdam Avenue
- BEIFELD, IRMA GRACE.....302 West 138th Street
- BELLER, WILHELMINA CATHARINE.....55 East 112th Street
- BENNETT, AGNES LEONARD.....Hackensack, N. J.  
Columbia University, A.B., 1900.
- BENNETT, CLARA RACHEL.....Shawnee, Pa.....520 West 123d Street
- BERGER, MARGARET FLORENTINE.....417 West 118th Street
- BERMINGHAM, FLORENCE.....202 West 138th Street
- BESSELIÈVRE, LEILA MAY.....63 West 97th Street
- BISHOP, CARRIE VIRGINIA.....Rensselaer, N. Y.....1230 Amsterdam Avenue
- BISSELL, CYRUS YALE.....25A Zabriskie Street, Jersey City, N. J.
- BIVINS, CHALFANT EDWIN.....Brooklyn, N. Y.....1230 Amsterdam Avenue
- BIVINS, JOHN ADDISON.....Charlotte, N. C.....419 West 118th Street
- BLAIR, KATHERINE READ.....Summit, N. J.....417 West 118th Street
- BLAIR, VEVIA.....Sans Souci, S. C.....417 West 118th Street
- BLANK, MARCUS ISSER.....1525 Madison Avenue  
New York University, M.D., 1897.  
Columbia University, A.B., 1903.
- BLOODWORTH, LUCY.....Atlanta, Ga.....1230 Amsterdam Avenue
- BOECKER, ALEXANDER.....312 East 85th Street  
College of the City of New York, B.S., 1898.
- BOLESCHKA, BERTHA HELEN.....961 Fulton Street, Brooklyn
- BOORMAN, CHARLOTTE SAYRE.....Lafayette Boulevard, West 173d Street
- BOOTH, CATHARINE AUGUSTA.....217 Gates Avenue, Brooklyn
- BORCHERT, JEANNETTE.....Brooklyn, N. Y.....1230 Amsterdam Avenue
- BOSWORTH, MARGUERITE BLANCHE.....111 West 115th Street
- BOURLAND, ALBERT PIKE.....Nashville, Tenn.....1230 Amsterdam Avenue  
Southwestern Baptist University, Jackson, Tenn., A.M.
- BOWDEN, HELEN C.....5208 Fourth Avenue, Brooklyn
- BOWERS, VIOLA SARAH.....Washington, N. J.....415 West 118th Street
- BOWLBY, ELIZABETH.....137 Bloomfield Avenue, Newark, N. J.
- BOYLE, JULIA.....415 West 118th Street
- BOYNTON, WILLIAM HENRY.....Nyack, N. Y.
- BRACKIN, JOHN TUDOR.....Philadelphia, Pa.....1230 Amsterdam Avenue
- BRADLEY, HELEN MARIA.....State College, Pa.....414 West 118th Street

- BRADLEY, MARGARET ELLEN.....54 Lewis Street  
 BRADY, KATHARINE ROGERS.....72 Van Siclen Avenue, Brooklyn  
 BRADY, LEON HOBART.....Kansas City, Mo.....354 West 120th Street  
 BRANDON, SADIE.....Tampa, Fla.....85 Gautier Avenue, Jersey City, N. J.  
 BRAUTIGAM, IDA MARGARET.....170 West 83d Street  
 BRECKINRIDGE, ELIZABETH.....Louisville, Ky.....1230 Amsterdam Avenue  
 BRICE, MARGARET JANE.....Coney Island and M Avenues, Brooklyn  
 BRICK, FRANCIS AUGUSTINE.....49 Avenue C, Bayonne, N. J.  
 Boston College, A.B., 1896.  
 BRICKA, GEORGE WILLIAM.....New Rochelle, N. Y.  
 BRICKNER, EDWIN SOLIS.....316 West 94th Street  
 College of the City of New York, B. S., 1890.  
 Columbia University, A.M., 1891.  
 BRIGGS, YEOMAN.....1973 Seventh Avenue  
 Columbia University, A.B., 1903.  
 BRITTAIN, EUGENE COLLOWAY.....Valdosta, Ga.....1230 Amsterdam Avenue  
 Mercer University, A.B., 1900.  
 BROADWELL, ALICE MAUD.....251 West 71st Street  
 BROOKS, ANNA ISABEL.....New Berlin, N. Y.....552 West 114th Street  
 BROOKS, FRANCES MYRTLE.....Denton, Texas.....1230 Amsterdam Avenue  
 BROOKS, MARY ELIZABETH.....Brooklyn, N. Y.....1230 Amsterdam Avenue  
 BROOKS, REBECCA BELLE.....Baltimore, Md.....1230 Amsterdam Avenue  
 BROWN, ALICE MAUD.....371 Fourth Street, Brooklyn  
 BROWN, CECILE.....5609 Third Avenue, Brooklyn  
 BROWN, FLORENCE.....Westmoreland, N. Y.....416 West 116th Street  
 BROWN, GEORGIANA ELIZABETH.....167 Decatur Street, Brooklyn  
 BROWN, HARVEY SCOTT.....Cleveland, O.....111 West 103d Street  
 Columbia University, A.B., 1902.  
 BROWN, HELEN CHURCHILL.....Schenectady, N. Y.....1230 Amsterdam Avenue  
 BROWN, JOHN SMITH, JR.....47 West 66th Street  
 Brown University, Ph.B., 1900.  
 BROWNE, ROBERT LITTLE.....153 West 22d Street  
 College of the City of New York, A.B., 1897.  
 BROWNE, THOMAS JAMES.....Germantown, Pa.....Teachers College  
 BROWNE, THOMAS QUINCY, JR.....Morristown, N. J.  
 Harvard University, A.B., 1888.  
 BROWNLEE, RAYMOND BEDELL.....Cedarhurst, N. Y.....63 Morningside Avenue  
 University of Rochester, A.B., 1898.  
 BUMP, THOMAS LEWIS.....So. Amenia, N. Y.....1230 Amsterdam Avenue  
 BURCHELL, DURWARD EARLE.....Antwerp, N. Y.....519 West 123d Street  
 BURDETTE, RICHARD STUART.....Cliffside, N. J.  
 BURFITT, LEILA R. G.....Orange, N. J.  
 BURKE, REGINA COELI MARIE.....38 West 115th Street  
 BURNELL, MARTHA MAY.....Bridgewater, Mass.....520 West 123d Street  
 BURNETT, JOSEPHINE MARIE.....415A Kosciusko Street, Brooklyn  
 BURNETT, MARTHA.....Tacoma, Wash.....2 West 83d Street  
 BURNS, LUCY.....Brooklyn, N. Y.....1230 Amsterdam Avenue  
 Vassar College, A.B., 1902.  
 BURNS, MARY FRANCES.....126 India Street, Brooklyn  
 BURRITT, MARION TILDEN.....Bronxville, N. Y.  
 Smith College, B.L., 1892.  
 BURROUGHS, ARETUS P.....New Albion, N. Y.....430 West 118th Street  
 Colgate University, B.S., 1900.  
 BURTON, GEORGE FREDERICK.....Portland, Me.....526 West 123d Street  
 BYRNE, JOSEPH PARKE.....747 East 176th Street  
 CAMP, ISOBEL.....171 East 83d Street  
 New York University, Pd.D., 1893.



- CAMPBELL, BESSIE.....596 East 141st Street  
 CAMPBELL, HERBERT GRANT.....Sheldon, Ia.....521 West 123d Street  
 Cornell University, Ph.B., 1896.  
 Columbia University, A.M., 1902.
- CANNON, GEORGE LYMAN, JR.....Denver, Colo.....1230 Amsterdam Avenue  
 Denver University, A.M., 1900.
- CAPLES, EDITH JESSIE (MRS.).....527 West 124th Street  
 CARLL, LYDIA ADÈLE.....Whitestone, Queens Borough  
 Columbia University, A.B., 1902.
- CARLSON, CARL OSCAR.....855 Cauldwell Avenue, Bronx Borough  
 College of the City of New York, B.S., 1896.
- CARPENTER, CAROLINE ESTHER.....134 East 44th Street  
 CARPENTER, HAROLD NATHANIEL.....No. Hoosick, N. Y.....505 West 12th Street  
 CARR, JOSEPH WILLIAM.....Fayetteville, Ark.....61 East 91st Street  
 Harvard University, A.B., 1893; A.M., 1895.  
 University of Leipzig, Ph.D., 1890.
- CARSON, MYRA.....Des Moines, Ia.....414 West 118th Street  
 CARTER, DOUGLAS SHELTON.....130 East 24th Street  
 CARTER, MARY CAROLINE.....5134 East 118th Street  
 CASE, ANNA BARTON.....Williamsport, Pa.....171 West 81st Street  
 CASE, LESLIE VERNE.....Tarrytown, N. Y.....321 West 118th Street  
 CASHMAN, JOSEPH FRANCIS.....148 Kent Street, Brooklyn  
 CATTON, MARY ELIZABETH.....Perry, N. Y.....416 West 118th Street  
 CHADBURN, ARAMINTA.....65 Grand Street, Jersey City, N. J.  
 CHALMERS, MARY.....241 West 139th Street  
 CHAMBERLAIN, AMOS.....18 Pennington Street, Paterson, N. J.  
 New York University, Pd.M., 1902.
- CHAMBERLIN, EGBERT CHARLES.....500 West 143d Street  
 CHAMBERS, JOHN S. DAVIS.....Davenport, Ia.....33 Eighth Avenue, Brooklyn  
 CHAMPION, ELLA.....Wharton, N. J.....227 Eighth Street, Jersey City, N. J.  
 CHANDLER, HENRY KING.....Pittsburgh, Pa.....29 West 15th Street  
 CHAPMAN, HARRIET LOUISE.....807 Main Street, Peekskill, N. Y.  
 CHASE, ARTHUR EDWIN.....Huntington, N. Y.  
 University of Vermont, A.B., 1889.
- CHATFIELD, HAZEN.....Cornwall, N. Y.....19 West 106th Street  
 CHENEY, GEORGE WALKLEY.....236 Johnson Avenue, Brooklyn  
 CHILDS, ESMOND AUSTIN.....Wallkill, N. Y.....220 West 123d Street  
 CHRISTIE, SARAH.....152 Prospect Street, Long Island City, Queens Borough  
 Cooper Union, B.S., 1898.
- CHRISTLEIN, FRED A. EMMA.....919 Cauldwell Avenue, Bronx Borough  
 CHRISTLEIN, JOHANNA.....919 Cauldwell Avenue, Bronx Borough  
 CHRISTLEIN, LYDIA.....919 Cauldwell Avenue, Bronx Borough  
 CLARKE, ALICE DEMING.....Hotel St. Andrew, 72d Street and Broadway  
 CLEMENCY, ANNA ELIZABETH.....211 Tillary Street, Brooklyn  
 CLOSE, ELSIE GERTRUDE.....Dunmore, Pa.....417 West 118th Street  
 CLOSS, RACHAEL EVALINE.....Rose, N. Y.....640 Madison Avenue  
 CLOUSE, EMMA JEANNETTE.....Pittsburgh, Pa.....417 West 118th Street  
 CLOWES, MARY SEAMAN.....Hempstead, N. Y.....510 Manhattan Avenue  
 COATS, HARRIET.....53 Spruce Street, Newark, N. J.  
 CODY, DORA.....310 East 116th Street  
 CODY, MARGARET.....Chicago, Ill.....419 West 118th Street  
 COFFIN, MARY ELIZABETH.....Asbury Park, N. J.....1230 Amsterdam Avenue  
 New York University, Pd.M., 1894; Ph.D., 1896.
- COLBURN, CLARA.....Salt Lake City, Utah.....33 West Washington Square  
 University of Vermont, A.B., 1888.
- COLCOCK, ANNIE TOOMER.....McPhersonville, S. C.....1230 Amsterdam Avenue  
 COLE, LAWRENCE WOOSTER.....Norman, Oklahoma.....402 West 124th Street  
 University of Oklahoma, A.B., 1890.

- COLLINS, EVELYN LAWRENCE.....1016 Lorimer Street, Brooklyn  
 COLLOQUE, ORROK.....Sewaren, N. J.....541 West 124th Street  
 Trinity College (Hartford, Conn.), A.B., 1899, A.M., 1903.  
 New York University, A.M., 1901.
- COMIN, ROBERT.....Richmond Hill, New York City  
 Princeton University, A.B., 1897.
- COMINGS, FANNIE ELIZABETH.....Brooklyn, N. Y.....1230 Amsterdam Avenue  
 COMMENDER, EDITH KINGSMILL.....111 West 115th Street  
 CONANT, SARAH HOWARD.....North Thetford, Vt.....415 West 118th Street  
 Wellesley College, B.S., 1887.
- CONDON, MARGARET.....New Rochelle, N. Y.  
 CONDON, MARY.....New Rochelle, N. Y.  
 CONDRON, MARY AGNES.....402½ East 56th Street  
 CONTAT, DELPHINE.....191 Calyer Street, Brooklyn  
 COOK, FRIEDA HERMINE.....1267 Fifty-Sixth Street, Brooklyn  
 COOK, MARY ELIZABETH.....337 West 27th Street  
 COONEY, GENEVIEVE.....Flushing, N. Y.....419 West 118th Street  
 COOPER, BERNARD JACOB.....119 East 127th Street  
 College of the City of New York, A.B., 1898.
- COOPER, CHARLOTTE BROWN.....Louisville, Ky.....417 West 118th Street  
 CORBETT, HARRIET IDELL.....759 Forest Avenue, Bronx Borough  
 CORNEY, EVIE.....Dutchess Junction, N. Y.....143 Madison Avenue, Flushing  
 Queens Borough
- CORR, CATHERINE VERONICA.....632 Myrtle Avenue, Brooklyn  
 COSTIGAN, EDWARD STEPHEN.....529 West 152d Street  
 COWAN, LOUISE HENRY.....Washington, D. C.....1230 Amsterdam Avenue  
 COWLES, CHARLOTTE ELIZABETH.....Pelham Manor, N. Y.  
 COX, BESSIE.....203 West 81st Street  
 COYE, A. NAOMI.....Corning, N. Y.....618 West 113th Street  
 CRAFT, ANNA WEEKES.....Glen Cove, N. Y.  
 CRAIG, JOSEPHINE.....St. Anthony Park, Minn.....414 West 124th Street  
 CRAIN, HARRY.....Philipsburg, Pa.....521 West 123d Street  
 CRANE, FANNIE L. (MRS.).....18 Prospect Street, Stapleton, Richmond Borough  
 CRANE, WILLIAM ALBERT.....Stapleton, Richmond Borough  
 Adelphi College, A.B., 1903.
- CRAWFORD, ANNIE GERTRUDE (MRS.).....738 Prospect Avenue, Bronx Borough  
 CROWELL, JOHN WHITING.....188 Franklin Place, Flushing, Queens Borough  
 Columbia University, A.B., 1903.
- CUMMINGS, FREDERIC ANSON.....Spartanburg, S. C.....1230 Amsterdam Avenue  
 Wofford College, A.B., 1896; A.M., 1901.  
 Columbia University, A.M., 1903.
- CURTIS, ROBERT WATSON.....132 West 90th Street  
 CURTIS, THOMAS ADRIAN.....72 West 87th Street  
 College of the City of New York, A.B., 1896.  
 New York University, LL.B., 1898.
- CUTTING, GEORGE RUGG (REV.).....67 Arthur Street, Yonkers, N. Y.  
 Amherst College, A.B., 1871; A.M., 1874.
- DALTON, ELIZABETH.....149 Clinton Avenue, Jersey City, N. J.  
 DALY, HELEN GAHN.....Brooklyn, N. Y.....1230 Amsterdam Avenue  
 New York University, Pd.M., 1895.
- DANA, RICHARD HENRY, JR.....Cambridge, Mass.....419 West 118th Street  
 Harvard University, A.B., 1901.
- DAVIDOFF, HENRY.....22 East 109th Street  
 College of the City of New York, A.B., 1899.
- DAVIDSON, BESSIE.....Waco, Tex.....231 East 68th Street  
 DAVIDSON, MARY ELIZABETH SPENCE.....2728 Broadway

- DAVIDSON, ROSE.....111 West 132d Street  
DAVIS, ALICE.....1230 Amsterdam Avenue  
University of Chicago. Ph.B., 1899.
- DAVIS, MARY JANET.....Brooklyn, N. Y.....1230 Amsterdam Avenue  
DAVISS, ANNA SHINN.....Germantown, Pa.....203 West 117th Street  
DAWSON, GEORGE.....Brooklyn, N. Y.....94 West 104th Street  
DAY, ANNIE MABEL.....Newport, Vt.....1230 Amsterdam Avenue  
DAY, DAISY TOLES.....West Hartford, Conn.....1230 Amsterdam Avenue  
Smith College, A.B., 1901.
- DEAN, PHILIP REDFIELD.....505 West 142d Street  
Harvard University, A.B., 1896.
- DE COMPS, ANTOINETTE LOUISE.....75 St. Mark's Avenue, Brooklyn  
DE COMPS, PAULINE LOUISE.....75 St. Mark's Avenue, Brooklyn  
DECOURBEY, MARIE EUGÉNIE.....Catonsville, Md.....142 East 48th Street  
DEMAREST, JAMES BURT THOMAS.....354 West 20th Street  
New York University, Ph.M., 1899.
- DENVER, MARY HOPE.....426 St. Nicholas Avenue  
DENYSE, LOUISE VOTT.....10 Wright Street, Stapleton, Richmond Borough  
DERRICK, CALVIN.....Morris, N. Y.....519 West 123d Street  
DE WITT, MARGARETTA PRISCILLA.....156 Ainslie Street, Brooklyn  
DIDENHOVER, MAUD ESTELLE.....Baltimore, Md.....415 West 118th Street  
DIEBOLD, WILLIAM.....275 Bank Street, Newark, N. J.  
DODGE, JULIA TREVOR.....Brooklyn, N. Y.....1230 Amsterdam Avenue  
DODGE, STELLA VAN VLIET.....Syracuse, N. Y.....1230 Amsterdam Avenue  
DODMAN, ALFRED CHARLES, JR.....235 West 108th Street  
DONNELLY, MARY CAHILL.....342 Driggs Avenue, Brooklyn  
DONNELLY, WILLIAM CHARLES.....Mifflintown, Pa.....369 Nostrand Avenue,  
Brooklyn
- DONOHUE, THOMAS JAMES.....1094 Franklin Avenue, Bronx Borough  
College of the City of New York, B.S., 1897.
- DORMINDA, SAVILLA KATHARINE.....35 Manchester Avenue, Paterson, N. J.  
DOSTER, JAMES JARVIS.....Troy, Ala.....519 West 123d Street  
State Normal College, Troy, Ala., Ph.B., 1902.
- DOTY, HENRY SAFFORD.....69 Locust Hill Avenue, Yonkers, N. Y.  
DOWLING, JOHN JOSEPH.....82 Laight Street  
DRISCOLL, ALEXANDER JAMES.....Hamilton, Pa.....Hamilton Park, Richmond Borough  
DROGE, HARMAN GRABAU.....Flushing, Queens Borough  
DRUMMOND, EVELYN MAUD.....331 Grand Street  
DU BOIS, MARY CONSTANCE.....316 West 102d Street  
DUGGAN, MATTHEW JOSEPH.....Dunwoodie, N. Y.....211 East 109th Street  
Manhattan College, A.B., 1899.  
New York University, A.M., 1903.
- DUGLISS, CHARLES HOSCA, JR.....54 Hamilton Place  
DUNCAN, MARY E.....298 Eleventh Street, Brooklyn  
DUNCAN, THOMAS JAMES.....87 Shelton Avenue, Jamaica, Queens Borough  
DUNKEL, KATE.....Richmond, Va.....1230 Amsterdam Avenue  
DUNLOP, WILLIAM CARRINGTON.....Richmond, Va.....27 Belmont Terrace, Yonkers, N. Y.  
DUNNE, SARAH ELIZABETH.....Oxford, N. Y.....1326 Pacific Street, Brooklyn  
DURFEE, JESSIE WOOD.....83d Street and Broadway  
EARLE, CORA BARSTOW.....Richmond Hill, N. Y.....1230 Amsterdam Avenue  
EARLE, MAYCE EMMONS.....Highland Mills, N. Y.  
EARLY, MARGARET.....36 West 65th Street  
ECKER, ESTHER.....342 East Fourth Street  
EISENMANN, FLORENCE (MRS.).....9 East 98th Street  
ELDRIDGE, ELLA RIDGWAY.....Atlantic City, N. J.....417 West 118th Street  
ELENUTCH, MICHAEL LOUIS.....223 Madison Street  
ELIASBERG, EMMA.....Montgomery, Ala.....1 West 104th Street

- ELLSWORTH, SANFORD JAY.....Far Rockaway, N. Y.....415 West 118th Street
- ENDELMAN, EDWARD.....College of the City of New York, B.S., 1900.  
New York University, A.M., 1903.
- ENDSLEY, ANDREW DOAK.....Tarentum, Pa.....1230 Amsterdam Avenue  
Wooster University, Ph.B., 1898.
- ENRIGHT, JULIA.....Long Branch, N. J.....1106 East 165th Street
- ESTABROOK, LULA BELL.....Saratoga Springs, N. Y.....636 Ocean Avenue, Jersey  
Mt. Holyoke College, B.L., 1897. City, N. J.
- EURE, LEE ELIZA.....Norfolk, Va.....364 West 118th Street
- EVANS, DANIEL BUDD.....Rockaway, N. J.....458 Hancock Street, Brooklyn
- EVANS, MARY WARTS.....Savannah, N. Y.....1230 Amsterdam Avenue
- EVANS, ROBERT HAYES.....Hampton, Va.....115 West 32d Street
- EVANS, SUSAN IDA.....Denton, Tex.....415 West 118th Street
- FARGO, EDITH COLE (MRS.).....Oberlin, O.....1230 Amsterdam Avenue  
Oberlin College, Ph.B., 1893.
- FARRAR, PRESTON COOKE.....239 West 108th Street  
Washington and Jefferson College, A.B., 1891; A.M., 1894.
- FEEHAN, FRANCES MARIE.....Bayonne, N. J.
- FELDMAN, DANIEL D.....509 Throop Avenue, Brooklyn  
University of Nebraska, B.S., 1899.
- FERENCZY, ARTHUR.....1025 Lexington Avenue
- FIELDER, LOUISE.....Pittsburgh, Pa.....110 West 126th Street
- FINCH, JAMES MYERS.....78 Centre Avenue, New Rochelle, N. Y.
- FINDLAY, WALTER.....318 West 18th Street  
College of the City of New York, B.S., 1897.  
New York University, LL.B., 1901.
- FISH, SAMUEL CENTENNIAL.....67 Stuyvesant Avenue, Brooklyn
- FISHPAW, CLARA BROOKS.....Cockeysville, Md.....74 West 124th Street  
Central University, A.B., 1897.
- FISTER, MARGARET ELIZABETH.....Mauch Chunk, Pa. ....1230 Amsterdam Avenue
- FITCH, RUSSEL MARTIN.....South Amboy, N. J.
- FITZGERALD, JOSEPH.....Scarsdale, N. Y.  
Illinois Wesleyan University, Ph.B.
- FITZPATRICK, EDWARD AUGUSTUS.....69 Pike Street
- FLEAGLE, NETA (MRS.).....Tampa, Fla. ....85 Gautier Avenue, Jersey City, N. J.
- FLOWERS, JOSEPHINE WATSON (MRS.).....Arlington, N. J.
- FORBES, IDA ISABEL.....915 Greene Avenue, Brooklyn
- FORD, MAY JEANNETTE.....509 West 142d Street
- FORSTER, ISABELLE.....320 New York Avenue, Jersey City, N. J.
- FOSTER, GERTRUDE.....Tuskaloosa, Ala.....113 East 59th Street
- FWLER, BENJAMIN KIMBALL TRUE.....Babylon, N. Y.....1230 Amsterdam Avenue
- FRAWLEY, MARY E.....180 East 95th Street
- FRAZER, GEORGE.....Brooklyn, N. Y.....419 West 118th Street  
Adelphi College, A.B., 1903.
- FRAZER, MOSES LEONARD.....116 West 134th Street  
Mt. Union College, Ph.B., 1896; Ph.M., 1899.  
New York Law School, LL.B., 1899.  
Morris Brown College, LL.D., 1903.
- FREEMAN, MARY LOUISE.....Saratoga Springs, N. Y.....100 West 94th Street
- FREIFELD, FRED.....378 East 10th Street
- FRIEDENHEIT, ARTHUR.....178 East 64th Street
- FRIEDMAN, SAMUEL.....439 West 123d Street  
New York University, LL.B., 1895; Pd.M., 1899.
- FRIEDMANN, HENRY.....158 Grand Street, Brooklyn  
College of the City of New York, B.S., 1898.  
New York University, A.M., 1902.



- FRIESS, LOTTIE LUCY.....536 Union Avenue, Bronx Borough  
 FROST, EDNA WHITNEY.....96 Lefferts Place, Brooklyn  
 FROST, HELEN VINCENT.....29 East 2d Street, Mount Vernon, N. Y.  
 FULTON, CHESTER ALAN.....Yonkers, N. Y.  
 FULTON, FANNIE CLOTILDE.....Grand Avenue and 184th Street  
 GAMBIER, LOUISE MARC.....351 Lexington Avenue  
 GANDY, JOHN MANUEL.....Petersburg, Va.....248 West 53d Street  
     Fisk University, A.B., 1898; A.M., 1900.  
 GANO, LINA E.....526 West 114th Street  
     Kansas State University, B.D. 1883.  
 GELBACH, MARIE.....821 Hudson Street, Hoboken, N. J.  
 GERAGHTY, MARY.....227 Mulberry Street, Newark, N. J.  
 GIBSON, HELEN FRANCES.....St. Louis, Mo.....1230 Amsterdam Avenue  
     American Medical College, M.D., 1901.  
 GILDEMEISTER, THEODORA.....Hillsboro, Ill.....1230 Amsterdam Avenue  
     Clarksburg College, A.M., 1899.  
 GILLESPIE, JAMES PACKARD.....Tarrytown, N. Y.....987 Madison Avenue  
 GIRARD, LUCIE MAUDE.....358 Nostrand Avenue, Brooklyn  
 GISLE, WILLIAM HENRY.....East Stroudsburg, Pa.....1230 Amsterdam Avenue  
 GODFREY, ELLEN BEACH (MRS.).....Rosebank, N. Y.....416 West 118th Street  
 GOERTNER, ROSE LANDAN (MRS.).....104 West 139th Street  
 GOETZ, JENNIE JULIA.....19 Sylvan Terrace  
 GOLDBERG, HARRY.....128 East 86th Street  
     College of the City of New York, B.S., 1902.  
 GOLDIE, EMMA.....13 East 127th Street  
 GOLDWASSER, ISRAEL EDWIN.....1352 Lexington Avenue  
     College of the City of New York, B.S., 1897; M.S., 1900.  
 GOLLOMB, JOSEPH JULIUS.....59 East 100th Street  
     College of the City of New York, A.B., 1902.  
 GOMER, BESSIE.....323 West 56th Street  
 GOODE, ZETLA.....Kirksville, Mo.....  
 GOODELL, JOSEPH EDWARD.....3132 Broadway  
     Franklin and Marshall College, A.B., 1894.  
 GORDON, JACOB.....104 McKibbin Street, Brooklyn  
 GORMAN, VINCENT ANGELO.....144 Rodney Street, Brooklyn  
     St. Francis Xavier College, A.B., 1900.  
 GRADY, WILLIAM EDWARD.....17 East 99th Street  
     College of the City of New York, B.S., 1897.  
     New York University, LL.B., 1901; Pd.M., 1903.  
 GRAHAM, EDWARD KIDDER.....Chapel Hill, N. C.....64 West 104th Street  
     University of North Carolina, Ph.B., 1898.  
     Columbia University, A.M., 1903.  
 GRAHAM MARGARET.....Westchester, N. Y.  
 GRANT, WILLIS HOWARD.....Pittsburgh, Pa.....2190 Seventh Avenue  
     Harvard University, A.B., 1899.  
 GRASS, GERTRUDE.....313 Lenox Avenue  
 GRAWN, CHARLES THEODORE.....Mt. Pleasant, Mich.....1230 Amsterdam Avenue  
 GRAY, HENRY DAVID.....Austin, Tex.....210 Produce Exchange  
     Colgate University, Ph.B., 1897.  
     Columbia University, A.M., 1898.  
 GRAYBELL, HENRY BLAIR.....Lewisburg, W. Va.....1230 Amsterdam Avenue  
     Washington and Lee University, A.B., 1902.  
 GRIFFIN, AUSTIN B.....Davenport, N. Y.....Dobbs Ferry, N. Y.  
 GRUNDY, ELIZABETH.....Paterson, N. J.....226 West 15th Street  
 GUILLIOD, ALEJANDRO BULTRAGO.....Porto Rico.....1230 Amsterdam Avenue  
 GWINN JOSEPH MARR.....Warrensburg, Mo.....1161 Amsterdam Avenue  
     University of Missouri, A.B., 1902

- HADDIGAN, EFFA LOUISE.....1230 Amsterdam Avenue  
 HAGEN, BERTHA ANNE.....637 Decatur Street, Brooklyn  
 HAHN, ALBERT WILLIAM.....245 West 130th Street  
 HALL, ELIZABETH FAMBER.....New Haven, Conn.....415 West 118th Street  
 HALL, FRANCES ESTELLE.....93 Linden Avenue, Jersey City, N. J.  
 Boston University, A.B., 1901.
- HALLOCK, ELIZABETH ANDERSON.....Chappaqua, N. Y.....419 West 118th Street  
 HALLOCK, FREDERICK BARTON.....46 Point Street, Yonkers, N. Y.  
 HAMILTON, JAMES ALBERT.....357 West 29th Street  
 University of Rochester, A.B., 1898.  
 New York University, A.M., 1903.
- HAMPHY, JOSEPH A.....183 Penn Street, Brooklyn  
 New York University, LL.B., 1892; A.B., 1903.
- HARE, CALVIN AURANDT.....Lewisburg, Pa.....5 West 125th Street  
 Bucknell University, A.B., 1877; A.M., 1880.
- HARRIS, ACHSAH MAY.....Emporia, Kan.....1161 Amsterdam Avenue  
 HARRIS, ALICE LOUISE.....Albion, N. Y.....417 West 118th Street  
 HARRIS, ANNIE (MRS.).....148 Hewes Street, Brooklyn  
 HARRIS, EDWARD ELIOT.....33 West 93d Street  
 New York University, M.D., 1880.
- HARRISON, GRACE.....Rosebank, N. Y.....416 West 118th Street  
 HARRISON, THEODOSIA BAKENDALE..... Fargo, N. D.....1230 Amsterdam Avenue  
 HARSEN, DORA FRANCES.....Forty Fort, Pa.....417 West 118th Street  
 HART, CLARA AVIS.....346 West 108th Street  
 Cornell University, B.S., 1895.
- HART, EMMA C.....Seattle, Wash.....1161 Amsterdam Avenue  
 HARTLEY, MARION.....229 West 134th Street  
 HARTMANN, JACOB WITTMER.....309 East 10th Street  
 College of the City of New York, B.S., 1901.
- HASBROUCK, CORNELIA.....Walden, N. Y.....15 West 129th Street  
 HASKELL, JULIANA (MRS.).....2 St. Nicholas Terrace  
 HASKELL, MARION ALEXANDER.....Columbia, S. C.....1230 Amsterdam Avenue  
 College for Women, Columbia, S.C., A.M., 1895.
- HASTINGS, MONTANA.....Kirksville, Mo.....417 West 118th Street  
 HATTON, JOHN GOODRICH.....14 East 109th Street  
 Theological Seminary, Nashotah, Wis., B.D., 1902.
- HAWES, RUTH BELT.....787 Lexington Avenue  
 HAWKINS, MASON ALBERT.....Baltimore, Md.....116 West 134th Street  
 Harvard University, A.B., 1901.
- HAWLEY, HARRIET.....1230 Amsterdam Avenue  
 HAYMAN, OSCAR MARSHALL.....Buffalo, N. Y.....1230 Amsterdam Avenue  
 HAZLEHURST, EMILY.....Macon, Ga.....152 West 82d Street  
 Salem College (Salem, N. C.), A.B., 1896.
- HEDGES, ANNA CHARLOTTE.....St. Louis, Mo.....1230 Amsterdam Avenue  
 HEIN, HENRY EMMO.....1304 Fulton Avenue, Bronx Borough  
 College of the City of New York, A.B., 1902.
- HEINTZE, RICHARD WILLIAM.....Hawthorne, N. Y.....302 Second Avenue  
 HELION, CATHERINE.....725 East 141st Street  
 HERRIET, HEBE ADELE.....729 East 143d Street  
 HERRMANN, HATTIE.....58 East 124th Street  
 HERSHEY, ANNIE BRADY.....Columbia, Pa.....417 West 118th Street  
 HEWITT, MARGARET LOUISE.....280 Garside Street, Newark, N. J.  
 Wellesley College, A.B., 1897.
- HEYDRICK, BENJAMIN ALEXANDER.....Meadville, Pa.....457 West 123d Street  
 Howard University, A.B., 1895.

- HICKS, ARCHIBALD A. (MRS.) . . . . Oxford, N. C. . . . Amsterdam Avenue and 123d Street  
 HIGH, MORRIS DE TURK . . . . . Oley, Pa. . . . . 1230 Amsterdam Avenue  
     Franklin and Marshall College, A.B., 1898.
- HILL, MARY LEWIS . . . . . Atlanta, Ga. . . . . 1230 Amsterdam Avenue  
 HILLMAN, SIDNEY MAURICE . . . . . 124 West 112th Street  
 HINTON, ESTELLE . . . . . Springfield, Mo. . . . . 42 West 83d Street  
 HIRSCH, LOUIS LOEWENSTEIN . . . . . Wilkesbarre, Pa. . . . . 542 West 113th Street  
 HISHIDA, SEIJI . . . . . Japan . . . . . 41 East 19th Street  
     New York University, A.M., 1900.
- HIX, MELVIN . . . . . 2102 Amsterdam Avenue  
 HOBART, CARRIE AUGUSTA . . . . . Bryn Athyn, Pa. . . . . 323 West 112th Street  
 HOCHSCHILD, SALI . . . . . 137 West 103d Street  
 HODGES, OLIVIA . . . . . Macon, Ga. . . . . 1230 Amsterdam Avenue  
 HOFFMAN, JULIA HUDDY . . . . . Norwich Town, Conn. . . . . 1230 Amsterdam Avenue  
 HOGLE, ADA . . . . . Emporia, Kan. . . . . 1161 Amsterdam Avenue  
 HOLBROOK, JULIA MACY (MRS.) . . . . . 545 West 142d Street  
 HOLLANDER, EDWARD . . . . . 178 East 72d Street  
     College of the City of New York, A.B., 1896.  
     New York University, LL.B., 1903.
- HOLRAN, ROSE ANNA . . . . . 382A Clinton Street, Brooklyn  
 HONISS, LOVELL JAMES . . . . . Dumont, N. J.  
     Wesleyan University, A.B., 1892.
- HOPKINS, EMMA B. . . . . Savannah, Ga. . . . . 1230 Amsterdam Avenue  
 HOPKINS, RUPERT HENRY . . . . . 45 Post Avenue, Port Richmond, N. Y.  
     Wesleyan University, B.S., 1894; M.S., 1896.
- HORRE, ELSIE WILHELMINE . . . . . 166 West 79th Street  
 HOUSE, HOMER GARFIELD . . . . . Madison, N. J.  
 HOWARD, HOMER EARL . . . . . Edgar, Neb. . . . . 316 West 115th Street  
 HOWD, EMILY ABBOTT . . . . . 273 Chauncey Street, Brooklyn  
 HUBBARD, RALPH HUSTACE . . . . . 138 West 74th Street  
 HUCKSLIP, BLANCHE . . . . . Des Moines, Ia. . . . . 1230 Amsterdam Avenue  
 HUGHES, DON EMANUEL . . . . . Olean, N. Y. . . . . 519 West 123d Street  
 HUGHES, LIZZIE SPEAR . . . . . 293 Lenox Avenue  
 HUNT, ABIGAIL MAY . . . . . Chicago, Ill. . . . . 1230 Amsterdam Avenue  
 HUNTING, JANET S. . . . . Hartford, Conn. . . . . 1230 Amsterdam Avenue  
 HURLEY, NELLIE FRANCES . . . . . 65 Fifth Avenue, New Brighton, Richmond Borough  
 HURLEY, THOMAS LESTER . . . . . 426 West 160th Street  
 HUSE, SIBYL MARVIN . . . . . Highland Falls, N. Y. . . . . 40 West 72d Street  
 HYAMS, SARAH . . . . . 155th Street and Amsterdam Avenue  
 HYDE, JUSTUS CHAUNCEY . . . . . 404 Quincy Street, Brooklyn  
 INMAN, SAMUEL GUY . . . . . 323 West 56th Street  
 JACOBS, LEO . . . . . 242 East 30th Street  
     College of the City of New York, A.B., 1900.
- JACOBS, MARY E. . . . . Baltimore, Md. . . . . 1230 Amsterdam Avenue  
 JACOBS, SYDNEY BRADSHAW . . . . . 434 Hawthorne Avenue, Yonkers, N. Y.  
 JACOBSON, JOHN . . . . . 362 West Erie Street, Chicago, Ill. . . . .  
     Beloit College, Ph.B., 1896.  
     Lake Forest University, LL.B., 1901.
- JAMES, MARIE CECILIA . . . . . Washington, D. C. . . . . 21 West 135th Street  
 JAMIESON, CHARLOTTE MURDOCH . . . . . Baltimore, Md. . . . . 1230 Amsterdam Avenue  
 JANER, JOSE . . . . . Rio Piedras, Porto Rico . . . . . 209 West 14th Street  
     University of Madrid, M.S., 1895.
- JEAL, EDWARD RAYNOR . . . . . Lawrence, N. Y.  
 JENNINGS, GOULD JAMES . . . . . Prince Bay, N. Y.  
 JOHN, PAULA . . . . . Orange, N. J.  
 JOHNSON, EMMA CHRISTINE . . . . . Crane Place and 174th Street  
 JOHNSON, HERBERT RAYMOND . . . . . Lincoln, Neb. . . . . 457 West 123d Street

- JOHNSTON, SARAH.....Brooklyn, N. Y.....1230 Amsterdam Avenue  
 JONES, ELIZABETH EDWARDS.....417 West 118th Street  
 JONES, MARY ELLEN.....Philipsburg, Pa.....1230 Amsterdam Avenue  
 JONES, VIRGINIA.....2164 Seventh Avenue  
 JORDAN, MARY READ (MRS.).....415 West 118th Street  
 JUDD, EDITH MAY.....Columbus, O.....11 West 18th Street  
 JUDD, EDWARD KNIGHT.....522 West 123d Street  
     Williams College, A.B., 1901.
- KAHLER, LOUISE ELIZABETH.....Conneaut, O.....417 West 118th Street  
 KALTENBACK, ANNA.....120 Richmond Avenue, Port Richmond, N. Y.  
 KAMMERER, LULIE RACHEL.....Baltimore, Md.....1230 Amsterdam Avenue  
     Woman's College of Baltimore, A.B., 1893.
- KANE, MARTHA AGNES.....167 Congress Street, Brooklyn  
 KARNER, MARY LOUISA.....144 Bradford Avenue, Plainfield, N. J.  
 KAZOREK, LEON ANDREW.....Elmhurst, Queens Borough  
 KEAGEY, ESTHER.....Philadelphia, Pa.....524 West 123d Street  
     Columbia University, A.B., 1900.
- KEAT, MAUD ZEAMER.....Carlisle, Pa.....1230 Amsterdam Avenue  
     Dickinson College, A.B., 1894; A.M., 1897.
- KEEP, AUSTIN BAXTER.....519 West 123d Street  
     Amherst College, A.B., 1897; A.M., 1901.
- KELCHNER, WILLIAM WILSON.....Williamsport, Pa.....19 West 81st Street  
     Bucknell University, A.B., 1886; A.M., 1889.
- KELLY, JULIA LORETTA.....79 South 9th Street, Brooklyn  
 KEMP, LENA.....150 East 56th Street  
 KEMP, WILLIAM CULLEN BRYANT.....306 West 102d Street  
     Columbia University, A.B., 1900; A.M., 1901; LL.B., 1896; LL.M., 1901.
- KENNEDY, ANNA JOSEPHINE.....361 Fourth Street, Brooklyn  
 KENNEDY, MABEL.....818 DeKalb Avenue, Brooklyn  
 KENNEDY, MARY STEWART.....124 West 126th Street  
     Adelphi College, A.B., 1901.  
     New York University, Pd.M., 1899; Pd.D., 1902.  
     Columbia University, A.M., 1902.
- KENNY, JOSEPHINE WECKERLE.....314 West 89th Street  
 KERRIGAN, KATHRYN.....594 Driggs Avenue, Brooklyn  
 KEYES, ANGELA MARY.....475 First Street, Brooklyn  
 KIDD, CECIL ARTHUR.....31 West 116th Street  
     New York University, Pd.M., 1897.
- KILBON, CAROLINE EUNICE.....Springfield, Mass.....1230 Amsterdam Avenue  
 KING, EDWARD PERCY.....142 West 133d Street  
 KIRK, GEORGE BARLOW.....Mechanicsburg, O.....1230 Amsterdam Avenue  
     Ohio State University, A.B., 1901.
- KIRKWOOD, ELIZABETH TIMANUS.....Emporia, Kans.....1161 Amsterdam Avenue  
 KLING, DELIA CHRISTINE.....139 West 117th Street  
 KLOCK, FAYETTE JOHN.....Atlantic City, N. J.  
 KNAPP, ALMA EUNICE.....142 West 109th Street  
 KNAPP, IDA CARLOTTA.....Detroit, Mich.....142 West 109th Street  
 KNIGHT, CHARLES CUDLIPP.....221 West 49th Street  
 KNOCHE, BERTHA BESSIE (MRS.).....14 Glenada Place, Brooklyn  
 KOENIG, NICHOLAS AUGUST.....80 West 12th Street  
 KORETSKY ABRAHAM.....344 Madison Street  
 KOUKOL, ALOIS BOHUSLAV.....347 East 74th Street  
 KOYT, BERTA ADOLTA.....7 Austin Street, Newark, N. J.  
 KREINER, LILLIAN MAY.....62 Oriental Street, Newark, N. J.  
 KREUDER, HERMAN ERNST.....62 West 97th Street  
 KRUSE, AMY.....123 Park Avenue, Hoboken, N. J.



- KUNTZ, DOROTHY.....1234 Prospect Avenue  
 KURZ, WILLIAM FRED, JR.....186 West 80th Street  
 College of the City of New York, B.S., 1894.
- LAFLIN, MARY.....Milwaukee, Wis.....378 West 71st Street  
 University of Wisconsin, B.S., 1897.
- LALLY, MARY VERONICA.....36 King Street  
 LAMB, ALICE LORETTO.....1230 Amsterdam Avenue  
 LAMB, SIDNEY RIVERS.....18 East 40th Street  
 LAMM, NETTIE ROSE.....Sedalia, Mo.....1230 Amsterdam Avenue  
 LANDMAN, BIRDIE V.....Natchez, Miss.....1230 Amsterdam Avenue  
 LANGTHORNE, JENNIE MENGEL.... Brooklyn, N. Y.....417 West 118th Street  
 LA ROSE, EDNA WICKERSHAM.... Porto Rico.....249 West 109th Street  
 LASELL, GEORGE MERRILL.....Plattsburgh, N. Y.....1230 Amsterdam Avenue  
 LAUGHLIN, HARRY HAMILTON.....Kirksville, Mo.....415 West 118th Street  
 LAUGHLIN, HUGH CLARENCE.....530 West 123d Street  
 Ohio State University, A.B., 1890.  
 University of Nebraska, A.M., 1895.
- LAWLOR, MARY CECILIA.....466 West 22d Street  
 LAWTON, ALBERT ROGERS.....Chappaqua, N. Y.  
 Swarthmore College, A.B., 1880; A.M., 1885.
- LAYTON, DAVID.....1069 Dawson Street  
 Rutgers College, B.S., 1894; M.S., 1903.
- LEDGER, MARION ANNA JUDSON.....50 South Oxford Street, Brooklyn  
 LEE, CORNELIA EDMOND.....Savannah, Ga.....1230 Amsterdam Avenue  
 LEIBSON, JACOB JOSHUA.....73 Second Avenue  
 College of the City of New York, B.S., 1901.
- LEIGHTON, MARIE.....174 West 126th Street  
 LELAND, FANNIBELLE.....943 Lexington Avenue  
 LENKAWSKI, BERTHA.....Brooklyn, N. Y.....1230 Amsterdam Avenue  
 LEVY, HENRY.....611 West 138th Street  
 College of the City of New York, A.B., 1896.  
 New York University, LL.B., 1900.
- LEVY, HENRY ALFRED.....213 East 107th Street  
 College of the City of New York, A.B., 1900.
- LEWENTHAL, BECCIE.....163 East 72d Street  
 LEWIN, JOHN CHRISTIAN.....101 North Main Street, Port Chester, N. Y.  
 LEWIS, HAROLD GOULD.....6 East 32d Street  
 LEWIS, LUCY GAGER.....Des Moines, Ia.....118 West 123d Street  
 LICKLIDER, ALBERT HARP.....Baltimore, Md.....1230 Amsterdam Avenue  
 Randolph-Macon College, A.M., 1897.
- LIEBERMAN, JOHN.....65 West 115th Street  
 College of the City of New York, A.B., 1897.  
 New York University, LL.B., 1902.
- LILIENFELD, AMELIA.....57 East 117th Street  
 LINDSLEY, LAURA AUGUSTA.....256 Elmwood Avenue, East Orange, N. J.  
 LINK, HARRY ADAM.....825 East 145th Street  
 LINTON, ANNIE.....Athens, Ga.....94 Lawrence Street  
 LINTON, IDA MAY (MRS.).....Joplin, Mo.....417 West 118th Street  
 LIPKE, JOSEPH.....423 Sixth Street  
 LITTLE, MARY WILLIS.....West Point, Ga.....320 West 58th Street  
 LOEW, FREDERICKA.....10 Amsterdam Avenue  
 LONDON, JEANETTE FANNIE.....307 Henry Street  
 LONG, SALLY GRIGGS.....Atlanta, Ga.....320 West 58th Street  
 LOOS, RICHARD FRANZ.....164 Franklin Place, Flushing, Queens Borough  
 LORENZO, CECILIA D.....Brooklyn, N. Y.....1230 Amsterdam Avenue  
 LOW, ANNA SARGENT.....Westfield, Mass.....  
 LOWIE, ROBERT HARRY.....138 West 117th Street  
 College of the City of New York, A.B., 1901.

- LUDDINGTON, HARRIET ADELAIDE. . . . . New Haven, Conn. . . . . 194 Joralemon Street, Brooklyn  
 LÜDEKE, MARIE THERESE. . . . . Jersey City, N. J. . . . . 552 West 114th Street  
 LUDWIG, AUGUSTUS. . . . . Brooklyn, N. Y. . . . . 905 Manhattan Avenue  
 LYNCH, MARY ANNE MONICA. . . . . 1024 Forest Avenue, Bronx Borough  
 LYNN, MAY. . . . . Pittsburgh, Pa. . . . . 1230 Amsterdam Avenue  
 LYON, HENRY STUART. . . . . 234 Clifton Avenue, Newark, N. J.  
     New York University, A.B., 1902.  
 McCANN, SARAH BRIDGET. . . . . 349 West 54th Street  
 MCCARTHY, ANNA VERONICA. . . . . 243 West 70th Street  
 MCCARTHY, MARY AGNES. . . . . 2 West 113th Street  
     New York University, Pd.M., 1898.  
 MCCARTHY, WILLIAM GEORGE. . . . . Seattle, Wash. . . . . 1230 Amsterdam Avenue  
 MCCASLIN, ELMER ELLSWORTH. . . . . Yellow Springs, O. . . . . 1230 Amsterdam Avenue  
     Antioch College, A.B., 1892; A.M., 1895.  
 McCLELLAND, ANNIE HART. . . . . Newark, N. J. . . . . 1230 Amsterdam Avenue  
 MCCONATHY, WILLIAM J. . . . . Louisville, Ky. . . . . 419 West 118th Street  
 McCONVILLE, LILLIAN MAUDE. . . . . New Haven, Conn. . . . . 104 West 83d Street  
 MCCORMICK, SUSAN. . . . . 366 Alexander Avenue  
 McCRAE, ANNIE. . . . . 418 Clermont Avenue, Brooklyn  
 McDOWELL, ELLEN GRACE. . . . . Stapleton, Richmond Borough  
 McDOWELL, SALLIE GARDINER. . . . . 84 Astor Street, Newark, N. J.  
 McGOWAN, LAURA TAYLOR. . . . . Sedalia, Mo. . . . . 1230 Amsterdam Avenue  
 McGOWAN, MARION LENA. . . . . 677 Wales Avenue  
 MCGUIRE, CAROLINE. . . . . Trenton, N. J. . . . . 15 Gramercy Park  
 McKEE, KATE. . . . . 347 East 19th Street  
 McKERNAN, CHRISTINE ELIZA. . . . . Jersey City, N. J. . . . . 419 West 118th Street  
 McKINLAY, JAMES GORDON. . . . . 502 West 145th Street  
 McKINSTRY, GRACE. . . . . Fredonia, N. Y. . . . . 417 West 118th Street  
     Columbia University, B. S., 1903.  
 McKNIGHT, ROBERT JAMES GEORGE. . . . . Mercer, Pa. . . . . 519 West 123d Street  
     Geneva College, A.B., 1896.  
     Princeton Seminary, B.D., 1900.  
 McLAUGHLIN, MARY ELEANOR. . . . . 156 Roebling Street, Brooklyn  
 McMANUS, ROSE MATILDA ADALINE. . . . . 17 East 105th Street  
     New York University, Pd.M., 1897.  
 McMATH, ALMA LAURA. . . . . Rochester, N. Y. . . . . 74 West 124th Street  
 McMILLEN, HARLOW. . . . . Rosebank, Richmond Borough  
     Union College, A.B., 1887; A.M., 1899.  
 McNIFF, KATHARINE. . . . . Harrisburg, Pa. . . . . 1230 Amsterdam Avenue  
 McNULTY, ANNA AUGUSTA. . . . . 348 West 19th Street  
 McPHAIL, CASSIE. . . . . 368 West 117th Street  
 McRAE, AGNES. . . . . 81 Morningside Avenue  
 McRAE, JANET. . . . . 81 Morningside Avenue  
 McSORLEY, EDWARD FRANCIS. . . . . 462 West 34th Street  
 MACFARLANE, ELIZABETH. . . . . Troy Hills, N. J.  
 MACKLIN, MAURICE. . . . . 63 Perry Street  
 MAGEWORTH, JULIUS OTIS. . . . . 2825 Decatur Avenue, Bronx Borough  
     College of the City of New York, A.B., 1898.  
 MAGUIRE, EDWARD RANDALL. . . . . 201 West 91st Street  
     New York University, LL.B., 1898.  
 MAGUIRE, MARGARET TILDEN. . . . . Philadelphia, Pa. . . . . 430 Columbus Avenue  
 MAHONEY, KATE CORNELIA. . . . . 475 West 145th Street  
 MAHONEY, REGINA MARIE SCHOLASTICA. . . . . New Castle, Del. . . . . 1291 Lexington Avenue  
 MALLON, ELIZABETH EUGÉNIE. . . . . 45 East 126th Street  
 MANGAM, EMILY ANNA. . . . . 914 Hancock Street, Brooklyn  
 MARKOWITZ, AUGUSTA. . . . . 153 East 84th Street

- MARKS, LOUIS.....234 East 68th Street  
College of the City of New York, B.S., 1896.  
New York University, Pd.M., 1903.
- MARTIN, NORMAN.....788 East 142d Street  
College of the City of New York, A.B., 1896.
- MASON, KATE JULIETTE.....Cleveland, O.....1230 Amsterdam Avenue  
MASON, WILLIAM LESLEY.....1122 Fox Street, Bronx Borough  
MASSENA, JASPER LINCOLN.....Marion, Ind.....430 West 118th Street  
MASTERTON, ROBERT COOLIDGE.....418 West 144th Street  
MAYO, MARY HELMS.....Columbus, Miss.....1536 Fiftieth Street, Brooklyn  
Mississippi College, A.B., 1889.
- MAZŸCK, KATHARINE BARNWELL....Charleston, S. C.....1230 Amsterdam Avenue  
MEADOWCROFT, ABBIE JANE.....Haverhill, Mass.....417 West 118th Street  
MELVILLE, JANE AGNES.....251 Fairmount Avenue, Newark, N. J.  
MENNIS, CORNELIUS.....75 Lewis Avenue, Brooklyn  
MENTZEL, CHARLES.....8 Beach Terrace, Bronx Borough  
College of the City of New York, B.S., 1900.
- MESSERLE, EVA LOUISE.....575 Franklin Avenue, Brooklyn  
METTLER ARTHUR J.....84 Henry Street, Brooklyn  
MEYENBORG, NELLIE HENRIETTA....Brooklyn, N. Y.....419 West 118th Street  
MILK, MARY.....263 West 25th Street  
MILLER, ELMER ISAIAH.....Chico, Cal.....415 West 118th Street  
Leland Stanford, Jr., University, A.B., 1896; A.M., 1897.
- MILLER, EMMA JANE.....127 Riverside Drive  
MILLER, LYDIA.....Brooklyn, N. Y.....1230 Amsterdam Avenue  
MILLER, THOMAS, JR.....415 West 117th Street  
MILLER, WILLIAM ELY.....422 West 146th Street  
MILLS, FLORENCE MAY.....141 West 138th Street  
MILLS, WALTER SANDS.....324 West 89th Street  
New York Homœopathic Medical College, M.D., 1889.
- MILLSPAUGH, HARRY.....149 West 142d Street  
MINNELLI, ADRIENNE.....Astoria, Queens Borough  
MITCHAM, GEORGE NATHAN.....Pratt City, Ala.....1230 Amsterdam Avenue  
Alabama Polytechnic Institute, B.S., 1897; C.E., 1898; M.E., 1899.
- MITCHELL, WILLIAM JOHN.....216 East 61st Street  
MONAGHAN, KATHERINE.....Denver, Col.....416 West 118th Street  
MONFORT, MYRA MAYHAM.....Chicago, Ill.....415 West 118th Street  
MONFRIED, FLORA.....811 Eagle Avenue  
MONROE, JAMES RANDLETT.....41 Greene Avenue, Brooklyn  
University of North Carolina, A.B., 1885.
- MONTPELL, ELISABETH.....Baltimore, Md.....1230 Amsterdam Avenue  
MOON, ALPHEUS WILBERFORCE.....Monroeville, N. J.....Teachers College  
Indiana University, A.B., 1895.
- MOORE, GEORGE AMOS.....Osage, Ia.....415 West 118th Street  
Denison University, A.B., 1895.
- MOORE LEVI VINTON.....Baltimore, Md.....19 West 135th Street  
MOORE, LOUIS ROSS.....Dobbs Ferry, N. Y.....1230 Amsterdam Avenue  
Beloit College, A.B., 1898.  
Princeton University, A. M., 1899.
- MOORE, MARY BERTHA.....Portland, Ore.....1230 Amsterdam Avenue  
MOORE, MARY COURTNEY.....Atlanta, Ga.....1230 Amsterdam Avenue  
MOORE, S. MAUDE.....101 Halsey Street, Brooklyn  
Wellesley College, A.B., 1898.
- MOORE, THOMAS VERNER.....415 West 59th Street  
Catholic University, Washington, D. C., Ph.D., 1903.

- MORGAN, BERTHA.....Waverly, N. Y.....1230 Amsterdam Avenue  
MORISON, MAY FRASER.....424 West 20th Street  
MORRILL, PENELOPE PATTEN.....Shelby, N. Y.....524 West 123d Street  
Vassar College, A.B., 1886.
- MORRIS, DUDLEY HENRY.....161 West 87th Street  
MORRIS, HOWARD IRVING.....678 Macon Street, Brooklyn  
MORRIS, STELLA EVANS.....Louisville, Ky.....Jersey City, N. J.  
MORRISON, WILLIAM JOHN.....76 St. James Place, Brooklyn  
Swarthmore College, B.S., 1896.
- MORTON, BELL.....Dobbs Ferry, N. Y.....417 West 118th Street  
MOSES, JOSEPH.....318 East 13th Street  
University of Cincinnati, A.B., 1894.
- MOSES, SARAH ELIZABETH.....Guilford, N. Y.....419 West 118th Street  
MOSS, OLIVE.....311 East 120th Street  
MULLEN, CHARLES ROBERT.....Shamokin, Pa.....419 West 118th Street  
MULLER, MAUD.....169 West 80th Street  
MULVANEY, SARA L.....353 Degraw Street, Brooklyn  
MUNROE, OLIVIA.....Brooklyn, N. Y.....1230 Amsterdam Avenue  
MURPHY, ANNA.....Randall's Island, New York City  
MURPHY, ANNE.....114 East 25th Street  
MURRAY, JAMES LEWIS.....Albany, Ga.....21 West 135th Street  
Fisk University, A.B., 1892.
- MURRAY, JENNIE ERSKINE.....81 West 127th Street  
NALLE, JOHN COLEMAN.....Washington, D. C.....132 West 32d Street  
NAYLOR, STELLA GRACE.....Delaware, O.....1230 Amsterdam Avenue  
Ohio Wesleyan University, B.L., 1899.
- NEIBEL, FRANK RANDOLPH.....Washington, D. C.....505 West 124th Street  
Antioch College, A.B., 1902.
- NELSON, HENRY.....Highland Falls, N. Y.....142 West 113th Street  
NESBIT, WILLIAM MARSIGLIA.....841 West End Avenue  
Columbia University, A.B., 1902.
- NEWCOMER, SADIE ELIZABETH.....Carlisle, Pa.....113 West 102d Street  
NISBETH, CLYDE MCCLELLAN.....Chappaqua, N. Y.....541 Manhattan Avenue  
NOLAN, JOHN THOMAS.....1103 Jennings Street, Bronx Borough  
NORTON, HUGH DANIEL.....79 Calyer Street, Brooklyn  
St. Francis Xavier College, A.B., 1899; A.M., 1901.
- NORTON, MARY LORETTA.....79 Calyer Street, Brooklyn  
OBERMEIER, MINNIE.....282 West 137th Street  
Normal College, A.B., 1901.
- O'CONNOR, EDWARD FRANCIS.....493 East 150th Street  
College of the City of New York, B.S., 1896.
- O'FARRELL, MARY E.....154 West 103d Street  
O'MALLEY, AGNES CECILIA.....576A Monroe Street, Brooklyn  
O'MEARA, ELLEN MARY.....171 East 62d Street  
O'NEIL, IDA WACHHÖLDER (MRS.).....Brooklyn, N. Y.....1230 Amsterdam Avenue  
O'NEILL, ANNIE JANE.....144 Oakland Street, Brooklyn  
OPPENHEIMER, ELSA MADALBINE.....1034 Park Avenue  
O'REGAN, JAMES JOSEPH.....164 East 80th Street  
St. Francis Xavier College, A.B., 1895.
- ORTHMANN, ELIZABETH.....430 West 124th Street  
OSTEROUT, MERTIE NATALIE.....Middletown, N. Y.....33 Birch Street, New Rochelle, N. Y.  
OTTEN, LEONARD FLAGGE.....250 West 88th Street  
OWEN, KENNETH DUNHAM.....70 Christopher Street, Montclair, N. J.  
OWENS, JENNIE FREEBORN.....Jersey City, N. J.....524 West 123d Street  
PADDOCK, ALICE HORTENSE.....15 East 87th Street  
PANARONI, ALFRED GEORGE.....334 West 42d Street  
College of the City of New York, B.S., 1902.



- PARDEE, MARY FIELD.....So. Norwalk, Conn.....1230 Amsterdam Avenue  
 PARKER, THEOPHILUS ROBERT.....Baltimore, Md.....232 West 124th Street  
 Morgan College, A.B., 1897; A.M., 1901.
- PARSONS, GRACE DOUGLASS.....Detroit, Mich.....105 St. Felix Street, Brooklyn  
 PARSONS, GRACE GRAY.....Albany, N. Y.....1230 Amsterdam Avenue  
 PARSONS, MAUD WELLESLEY.....Rye, N. Y.....316 West 102d Street  
 PASCAL, JOSEPH LEON.....272 West 128th Street  
 College of the City of New York, A.B., 1898.  
 New York University, LL.B., 1901.
- PATCHEN, JESSIE LAURA.....51 West 106th Street  
 PATTERSON, AMELIA FRANCES.....105 Ross Street, Brooklyn  
 PATTERSON, ANNIE DIXON.....114 East 81st Street  
 PAULSEN, GERTRUDE META.....410A Sackett Street, Brooklyn  
 PEABODY, EUNICE DIANTHA.....St. Paul, Minn.....White Plains, N. Y.  
 PEACOCK, ELSA MARGRET (MRS.).....49 Fourth Avenue, Brooklyn  
 PEEBLES, ROSE JEFFRIES.....Birmingham, Ala.....315 West 118th Street  
 Mississippi College for Women, A.B., 1891.
- PENDLETON, JESSIE READ.....Richmond, Va.....220 West 45th Street  
 PENNOCK, FREDERICK MOSES.....Rio Piedras, Porto Rico...1230 Amsterdam Avenue  
 Cornell University, Agr.B., 1877.
- PERRY, RACHEL CRAIG.....414 West 124th Street  
 PERSONS, CLAIR GEORGE.....Cambridge, Mass.....31 West 55th Street  
 Harvard University, B.S., 1903.
- PETERSON, TOINETTE CATHERINE..... Fargo, N. D.....1230 Amsterdam Avenue  
 PFARRIUS, MARIE C.....340 East 86th Street  
 PHILP, MARY ISABEL.....Chateaugay, N. Y.....414 West 118th Street  
 Syracuse University, Ph.B., 1901.
- PICKARD, GLENN HUNTINGTON.....Cleveland, O.....368 West 118th Street  
 PIERCE, ADELAIDE.....Chelsea, Mass.....1230 Amsterdam Avenue  
 PIGNOL, GERTRUDE.....321 Flatbush Avenue, Brooklyn  
 POAPST, LYDIA ANN.....Ontario, Can.....1230 Amsterdam Avenue  
 POCKRIDGE, ANNA.....156 Second Avenue  
 POELLER, WILLIAM.....104 Lincoln Avenue, Orange, N. J.  
 POMERANZ, JUDITH.....436 Prospect Place, Brooklyn  
 POMERENE, JENNIE.....Poughkeepsie, N. Y.....415 West 118th Street  
 Vassar College, A.B., 1886.
- PORTER, HERMIONE THEODOSIA.....Buffalo, N. Y.....1230 Amsterdam Avenue  
 PRATT, CAROLINE.....Dixon, Ill.....417 West 118th Street  
 PRATT, HARRY IRVING.....Orwell, N. Y.....519 West 123d Street  
 PRATT, HARRY TRUMAN.....Baltimore, Md.....19 West 135th Street  
 PRENTICE, IDA WHITCOMB.....550 West 148th Street  
 PRENTIS, EDMUND ASTLEY.....408 West 23d Street  
 PRICE, ELLA.....Allegheny, Pa.....1230 Amsterdam Avenue  
 Blairsville College, A.B., 1902.
- PULVERMACHER, WILLIAM DEAN.....173 West 102d Street  
 College of the City of New York, A.B., 1900.
- PURDY, ARTHUR LANE.....Port Chester, N. Y.  
 QUENNARD, ANNA HAMMETT.....Port Jefferson, N. Y.....415 West 118th Street  
 RABENORT, WILLIAM LOUIS.....646 East 25th Street, Paterson, N. J.  
 RAGLAND, FANNIE CABELL.....Richmond, Va.....1230 Amsterdam Avenue  
 RAISIN, JACOB SALMON.....Port Gibson, Miss.....460 Grand Street  
 University of Cincinnati, A.B., 1900.
- RAISIN, SARAH FRANCES.....460 Grand Street  
 RALPH, ALICE CHURCHMAN.....741 Marcy Avenue, Brooklyn  
 RALPH, MARY JANE.....92 Taylor Street, Brooklyn  
 RANNEY, MAY JEANNETTE.....29 Sterling Place, Brooklyn

- RAUB, CORA MAE.....Washington, N. J.....415 West 118th Street
- REED, EMMA LOUISA.....141 West 4th Street  
Wesleyan University, Ph.B., 1899.  
Columbia University, A.M., 1900.
- REESE, CHARLOTTE ELIZABETH..New Paltz, N. Y.....952A Greene Avenue, Brooklyn
- REEVE, LOUISE PIERSON.....529 Clinton Avenue, Newark, N. J.
- REGAN, AGNES GENEVIEVE.....40 West 129th Street
- REGAN, MARY ANASTATIA.....40 West 129th Street
- REILLY, FREDERICK JOSEPH.....444 St. Nicholas Avenue  
St. Francis Xavier College, A.M., 1892.  
New York University, LL.B., 1896.
- REILLY, KATHERINE ALOYSIA.....55 West 47th Street
- REININGER, WINIFRED BERTHA...Muskegon, Mich.....263 West 130th Street
- REMY, ALFRED.....203 West 131st Street  
College of the City of New York, A.B., 1890.
- REYNOLDS, HERBERT FOSTER.....Yonkers Park, N. Y.
- RHAME, JOHN FOOTE.....Wautagh, N. Y.....1230 Amsterdam Avenue
- RHoad, EDWARD JOSHUA.....Bath, Pa.....26 West 129th Street  
Lafayette College, A.B., 1901.
- RICE, EDITH.....715 St. Nicholas Avenue.....1230 Amsterdam Avenue
- RICHARDSON, WILLIAM LEEDS.....Toronto, Can.....1230 Amsterdam Avenue
- RICHMOND, MARGARET BRANDON.....430 West 118th Street
- RICHMOND, SARAH.....416 West 118th Street
- RIDDELL, FANNIE LOUISE.....Denver, Colo.....1230 Amsterdam Avenue
- RIDDLE, GEORGE WILLIAM.....Saranac Lake, N. Y.....627 West 115th Street
- RIDER, CATHERINE MAILLER.....Wilmington, Del.....419 West 118th Street  
Swarthmore College, B.L., 1888.
- RIEMER, BERNHARD WILLIAM.....Carlstadt, N. J.
- RIGHTER, MARY.....Pine Plains, N. Y.....1230 Amsterdam Avenue
- RILEY, MARIETTA.....1652 Nostrand Avenue, Brooklyn
- RINALDO, HENRIETTA.....66 East 92d Street
- RINDELL, MABEL WOOLMAN.....Chicago, Ill.....500 West 123d Street
- RITTER, ALICE EMILY B. (Mrs.).....466 East 25th Street, Brooklyn
- ROBERTS, JOHN STACEY.....21 Beekman Place  
College of the City of New York, B.S., 1895.  
New York University, A.M., 1903.
- ROBINSON, ELIZA.....Duluth, Minn.....1230 Amsterdam Avenue  
University of Wisconsin, B.S., 1898.
- ROBINSON, IDA STEVENS.....Herkimer, N. Y.....1230 Amsterdam Avenue
- RODMAN, HENRIETTA.....846 Boulevard, Astoria, Queens Borough
- ROGERS, JAMES CLARKSON.....1750 Forty-fifth Street, Brooklyn  
Queen's University, Ontario, Can., A.B., 1894.
- ROLLER, CARO MAY.....Charleston, W. Va.....1230 Amsterdam Avenue
- ROMAN, ULISES.....San Sebastian, Porto Rico.....1230 Amsterdam Avenue
- ROSE, GLADYS MARY.....420 West 23d Street
- ROSENSTEIN, ALINA.....49 West 96th Street  
Columbia University, A.B., 1902.
- ROTHSCHILD, WALTER LOUIS.....1111 Madison Avenue
- ROTTGER, ELIZABETH CHRISTINE.....1138 Washington Avenue, Bronx Borough
- ROWAN, THOMAS.....Mount Hermon, Mass.....125th Street Y. M. C. A.
- ROWE, ALICE EMILY.....Rosebank, N. Y.....1230 Amsterdam Avenue
- ROYSTER, GERTRUDE.....Raleigh, N. C.....304 West 116th Street
- RUBINSTEIN, ABRAHAM.....233 East 9th Street
- RUHMANN, LILLIE.....Philadelphia, Pa.....414 West 118th Street
- RUPP, FREDERICK LOUIS.....359 West 34th Street
- RUSSELL, VINNEDGE M.....Grand Rapids, Mich.....519 West 123d Street
- RYSPAN, MARY.....262 East Broadway

- ST. GEORGE, ANNA JANE.....Fordham, Bronx Borough  
 SALBERG, EMMA JANE.....266 West 166th Street  
 SALINGER, HERBERT J.....8 East 86th Street  
 SALISBURY, EDNA MAY.....Wilson, N. Y.....975 Lexington Avenue  
 SANDERS, CLARA AGNES VAUGHAN.....167 West 83d Street  
 SAXE, BERNHARD DAVID.....1991 Lexington Avenue  
     College of the City of New York, B.S., 1899.  
     Columbia University, A.M., 1903.  
 SAXTON, LYNN MATEER.....91st Street and Lexington Avenue  
     Lafayette College, B.S., 1897.  
 SCHERZINGER, MINNIE ANNA.....147 East 8th Street  
 SCHILLER, BIANCA.....College Point, Queens Borough  
 SCHILLING, AMELIA CONSTANCE.....805 East 148th Street  
 SCHMAUK, EMMA MARIA.....Lebanon, Pa.....1230 Amsterdam Avenue  
 SCHMIDT, FREDERICK SOMMER.....525 West 150th Street  
     College of the City of New York, B.S., 1900.  
 SCHODTS, LILY MARGARET.....133 East 73d Street  
 SCHOENHARDT, LENA MARY.....401 Sumpter Street, Brooklyn  
 SCHRADER, ETTA SOPHIE.....Jersey City, N. J.....1230 Amsterdam Avenue  
 SCHRODER, LAURA.....Teller Avenue near 169th Street  
 SCHULTZ, ANNA M.....152 East 48th Street  
 SCHULZ, BERTHA.....Fort Lee, N. J.  
 SCHWABE, IDA.....73 East 85th Street  
 SCHWARTJE, CHRISTINE.....440 First Street, Brooklyn  
 SCOTT, CORA ARNOT.....509 West 112th Street  
     Columbia University, A.B., 1900.  
 SCOTT, IZORA.....Pueblo, Colo.....1230 Amsterdam Avenue  
 SCOTT, MARGARET.....67 Greenpoint Avenue, Long Island City, Queens Borough  
 SEGGER, OTTO FREDERICK.....285 Central Avenue, Jersey City, N. J.  
 SELBY, MIRIAM FLORENCE.....Prince Bay, Richmond Borough  
 SENIZA, FRANCISCA CATHARINE.....136 Boulevard, Hoboken, N. J.  
     Columbia University, B.S., 1903.  
 SERGEANT, NETTIE COLIS.....Atlanta, Ga.....1230 Amsterdam Avenue  
     University of Nashville, A.B., 1880; A.M., 1894.  
 SEWARD, ELIZABETH KIMBER.....250 West 94th Street  
 SEYMOUR, IDA.....Granville, Mass.....1230 Amsterdam Avenue  
     Vassar College, A.B., 1901.  
 SEYMOUR, JOHN COTES, JR.....622 West 147th Street  
 SHANLEY, MINNIE VERONICA.....219 Fourth Street, Jersey City, N. J.  
 SHEEHAN, JOSEPH MATTHEW.....209 Carroll Street, Brooklyn  
     St. John's College, A.B., 1892; A.M., 1901.  
 SHEPPERSON, MILDRED.....Columbus, Ga.....417 West 118th Street  
 SHERMAN, ELIZABETH LORETT.....Muskegon, Mich.....1230 Amsterdam Avenue  
     University of Michigan, Ph.B., 1900.  
 SHRINER, EMMA JANE.....Louisville, Ky.....1230 Amsterdam Avenue  
 SICELOFF, MAMIE ELMORE.....Fayette, Mo.....1230 Amsterdam Avenue  
 SIME, GEORGE BROWN.....361 West 121st Street  
 SIMPSON, STEPHEN GEORGE.....Easton, Pa.....416 West 118th Street  
     Lafayette College, A.B., 1896; A.M., 1899.  
 SINCLAIR, JOHN EDWIN.....62 Taylor Street, Newark, N. J.  
 SINDELAR, CHARLES.....162 East End Avenue  
     College of the City of New York, B.S., 1896.  
 SINN, EMMA FRANCES.....693 East 135th Street  
 SKELLY, HELEN MARIA GERTRUDE.....339 East 14th Street  
     Normal College, A.B., 1902.  
 SLOAN, SAM BERKLEY.....Iowa City, Ia.....524 West 123d Street  
     University of Nebraska, A.B., 1899.

- SMITH, J. CLARENCE.....Trenton, N. J.....415 West 118th Street  
Princeton University, A.B., 1895.
- SMITH, THOMAS MICHAEL.....247 West 26th Street
- SMITH, WILLIAM PALMER.....Edinboro, Pa.....162 West 123d Street
- SNOW, CARRIE ISABELLE.....335 West 45th Street
- SNYDER, ARRIETTA.....Newburgh, N. Y.....1230 Amsterdam Avenue
- SNYDER, BENTON LOUIS.....143 West 140th Street
- SOMERVILLE, DAVID JAMES WATSON.....Austin, Minn.....18 West 122d Street
- SOUTHALL, EVELYN HENRY.....Norfolk, Va.....430 West 118th Street
- STACK, MARY CARTHAGE.....169 East 111th Street
- STANTIAL, ROBERT SUMNER.....540 East 163d Street  
College of the City of New York, B.S., 1898.
- STANTON, JOHN BYRON.....Norwich, Conn.....1230 Amsterdam Avenue
- STETSON, ARTHUR DANA.....166 Wilson Street, Brooklyn
- STEVENS, FRANCES MURIEL.....75 East 120th Street
- STEVENS, HENRY JUNE.....6 St. Nicholas Terrace  
Dartmouth College, A.B., 1888.
- STEVENS, OSCAR EGERTON.....Far Rockaway, Queens Borough
- STOCKTON, GUY CADWALLADER.....Greeley, Colo.....340 West 118th Street
- STOCKTON, JAMES LEROY.....Eaton, Colo.....430 West 118th Street
- STONE, LUCY EVELYN.....Brooklyn, N. Y.....417 West 118th Street
- STORER, GEORGIANA WINTHROP.....1161 Amsterdam Avenue
- STORE, EDWARD JOHN.....Jersey City, N. J.
- STOUTENBURGH, CHARLES HALL.....59 West 54th Street
- STRATTON, MARY STUART.....Amityville, N. Y.
- STRAYER, GEORGE DRAYTON.....Baltimore, Md.....402 West 124th Street  
Johns Hopkins University, A.B., 1903.
- STREET, MARY FRANCES.....98 Brooklyn Avenue, Brooklyn
- STRETCH, CAROLYN WOOD.....Philadelphia, Pa.....Leonia, N. J.
- STULL, SPENCER CLARENCE.....Charlesville, Md.....521 West 123d Street
- SULLIVAN, MARGARET.....St. Louis, Mo.....1161 Amsterdam Avenue
- SULLIVAN, NELLIE LAURA.....552 East 86th Street
- SUMNER, ELIZABETH TOLMAN.....Newton, Mass.....1230 Amsterdam Avenue
- SUMNER, FLORENCE.....Newton, Mass.....1230 Amsterdam Avenue
- SUTHERLAND, JOSIE MARY.....372A Bainbridge Street, Brooklyn
- SUTRO, FLORENCE CLINTON (Mrs.).....320 West 102d Street
- SUTRO, THEODORE.....320 West 102d Street  
Harvard University, A.B., 1871.  
Columbia University, LL.B., 1874.
- SWEENEY, LUCIE AGNES.....434 Ninth Street, Brooklyn
- TAFT, THOMAS KNAPP.....Cornwall, N. Y.....505 West 112th Street
- TAIT, BERTHA.....Cold Spring, N. Y.
- TAPLIN, LEE NEWTON.....Oswego, N. Y.....519 West 123d Street
- TATE, MARY ALDA.....Cresco, Ia.....35 Seventh Avenue
- TAYLOR, ELLA McMILLAN (Mrs.).....Yonkers, N. Y.
- THOMAS, ANNIE ELIZA.....Washington, D. C.....45 West 66th Street
- THOMAS, FRANCES BAKER.....Asbury Park, N. J.....130 East 60th Street
- THOMPSON, LEWIS BUCHANAN.....College, Ga.....21 West 135th Street  
Georgia State College, A.B., 1899.
- THOMPSON, LIDA MAUDE.....Stamford, Conn.....521 West 123d Street
- TIBBITS, MARIETTA JANE.....439 West 123d Street
- TICE, WALTER ALBIN.....2053 Seventh Avenue
- TILDEN, CHARLES ALBERT.....East Cleveland, O.....Pocantico Hills, N. Y.  
Adelbert College, Ph.B., 1901.
- TINKHAM, FRANCES.....Kirksville, Mo.....415 West 118th Street
- TOBIN, ANNA STABIA.....Windsor Locks, Conn.....1230 Amsterdam Avenue
- TODD, HOBART HARRISON.....1237 Pacific Street, Brooklyn
- TOMKIES, CHARLES DOSWELL.....Cameron, Texas.....523 West 124th Street  
Columbia University, A.B., 1903.



- TONER, ELEANOR LORETTO.....1284 Fulton Avenue, Bronx Borough  
TORRE, MANUEL DE LA.....201 West 120th Street  
University of Havana, Cuba, A.B., B.S., 1895.
- TOWNSEND, EDWARD BENJAMIN.....Wallingford, Conn.....414 West 124th Street  
TRACY, EMMA SALISBURY.....Elizabeth, N. J.....430 West 118th Street  
TRAVERS, MARY ELEANOR.....380 Waverly Avenue, Brooklyn  
TREAT, FLORA DRAPER.....942 St. Nicholas Avenue  
TREMPE, FLORENCE NIGHTINGALE.....Hotel "Winthrop," Seventh Avenue and  
125th Street
- TROMPEN, NICHOLAS J.....Ramsey, N. J.  
TROTTER, JAMES PATTEN.....Yonkers, N. Y.  
TROXELL, JOSEPH.....2779 Webster Avenue, Bronx Borough  
TRULL, GEORGE HARVEY (REV.).....7 West 55th Street  
Johns Hopkins University, A.B., 1894.  
Princeton University, A.M., 1897.
- TUCKER, LOUISE EMERY.....419 West 118th Street  
Adelphi College, A.B., 1900.  
Columbia University, A.M., 1901.
- TUPPER, HARRIET AKIN (MRS.).....201 West 106th Street  
TUTHILL, JAMES FREDERIC.....Middletown, N. Y.  
Cornell University, A.B., 1882.
- UTTER, GRACE LILLIAN.....1067 Prospect Place, Brooklyn  
Vassar College, A.B., 1902.
- VALENTINE, ISABEL.....302 Columbus Avenue  
VALENTINE, MINNIE BASSETT.....62 Java Street, Brooklyn  
VAN ALSTINE, CORNELIUS RALPH.....Hawthorne, Conn.  
VANDEGRIFT, LORA W. (MRS.).....Altoona, Pa.....140 West 22d Street  
VAN NAME, WARREN MERSEREAU.....Tottenville, Richmond Borough....2 Monroe  
Street, Brooklyn  
Columbia University, A.B., 1899.
- VAN NORDEN, GRACE LOUISE.....2031 Fifth Avenue  
VAN SICLEN, ETHEL KISSAM.....271 West 132d Street  
VAN SICLEN, MATTHEW.....Whitestone, Queens Borough  
Amherst College, A.B., 1902.
- VENABLES, ESTHER MARIE.....Philadelphia, Pa.....552 West 114th Street  
VIDÈRE, JEANNE ANNA.....11½ West 63d Street  
VIDÈRE, LEONTINE ROSE.....11½ West 63d Street  
VOLCKHAUSEN, WILLIAM.....433 West 162d Street  
College of the City of New York, B.S., 1896.  
New York University, LL.B., 1902.
- VOM BAUR, CHARLOTTE MARIE.....18 West 130th Street  
VOORHEES, RUTH CASTNER.....Basking Ridge, N. J.  
Syracuse University, B.S., 1902.
- WAHLE, MARIE.....Mt. Holly, N. J.....520 West 123d Street  
WALKER, EMMA.....1439 Pacific Street, Brooklyn  
WALKER, JENNIE.....1439 Pacific Street, Brooklyn  
WALKER, MARY ADELAIDE (MRS.).....Topeka, Kan.....434 Central Park West  
Maryland College, A.B., 1898; A.M., 1900.
- WALKER, MARY BARBOUR.....434 Central Park West  
WALLACE, EMMA FRANCES.....Chelsea, Mass.....520 West 123d Street  
WALLACE, HERBERT.....238 West 48th Street  
WALLACE, MARY LUCINDA.....Bridgewater, Mass.....520 West 123d Street  
WALLACE, THOMAS WALKER.....Salisbury, N. C.....3 West 135th Street  
Livingstone College, A.B., 1900.
- WALTHER, JOHN WOODWARD.....431 Hopkins Avenue, Astoria, Queens Borough  
WARD, IDA.....Jamaica, Queens Borough....1230 Amsterdam Avenue  
WARDLAW, CHARLES HAMILTON.....Atlanta, Ga.....129 West 53d Street  
Baptist College, Atlanta, Ga., A.B., 1902.

- WARE, MARY PATTIN (MRS.).....Havana, Cuba.....430 West 118th Street  
 WARREN, CORA.....Felton, Del.....1230 Amsterdam Avenue  
 WARREN, JAMES PETER.....153 West 12th Street  
 Boston College, A.B., 1896.
- WARWICK, AGNES.....254 West 121st Street  
 WAUGH, KARL TINSLEY.....Delaware, O.....1230 Amsterdam Avenue  
 Ohio Wesleyan University, A.B., 1900; A.M., 1901.
- WAY, IDA HOLLINGSWORTH.....Aledo, Ill.....416 West 118th Street  
 WAYNICK, SUSANNE EMMA.....Chicago, Ill.....415 West 118th Street  
 WEBER, CHARLOTTE.....Jersey City, N. J.....1230 Amsterdam Avenue  
 WEBER, MARY ELIZABETH.....Cincinnati, O.....240 West 122d Street  
 WEHLE, HANNA.....202 West 82d Street  
 WEHN, EARLE ALBERT.....Beatrice, Neb.....348 West 57th Street  
 WEISS, FRANCES ADLER (MRS.).....1443 Lexington Avenue  
 New York University, Pd.M., 1899.
- WELCH, LAURA CORNELIA.....Duluth, Minn.....1230 Amsterdam Avenue  
 WELCH, MARY EMILY.....2090 Arthur Avenue  
 WELSH, HELEN BROMLEY.....Hatboro, Pa.....144 West 123d Street  
 WELSH, JOHN.....South Orange, N. J.  
 WENDEL, CARRIE ELIZABETH.....345 Thirteenth Street, Brooklyn  
 WENDT, CORDELIA.....Larchmont, N. Y.  
 Columbia University, A.B., 1901.
- WEST, BETTY SEATON.....Norfolk, Va.....1230 Amsterdam Avenue  
 WEST, CLAUDE LORRAINE.....Newark, N. J.....1230 Amsterdam Avenue  
 WEST, SALLIE K.....Norfolk, Va.....1230 Amsterdam Avenue  
 WHARTON, HEBER EDWARD.....Baltimore, Md.....19 West 135th Street  
 WHEATCROFT, WALTER LEE.....844 Greene Avenue, Brooklyn  
 WHICHER, GEORGE MEASON.....68 Columbia Heights, Brooklyn  
 Iowa College, A.B., 1882; A.M., 1885.
- WHITE, EDNA LEONE.....Bridgewater, Mass.....520 West 123d Street  
 WHITE, TRILLENA.....Springfield, O.....417 West 118th Street  
 WHITE, WALTER CHARLES LEWIS...Meriden, Conn.....220 Willoughby Avenue,  
 Brooklyn
- WHITESIDE, DONALD GRANT.....251 West 123d Street  
 College of the City of New York, B.S., 1897.  
 New York University, A.M., 1901.
- WHITIN, ERNEST STAGG.....94 Lawrence Street  
 WHITTAKER, MARIE FRANCES.....496 McDonough Street, Brooklyn  
 WILCOX, MARY ELIZABETH.....Bergen, N. Y.....414 West 118th Street  
 WILCOX, HARRY DICKENS.....New Iberia, La.....457 West 123d Street  
 WILCOX, WINIFRED.....Yonkers, N. Y.  
 WILDER, GEORGE FAY.....11 Linden Avenue, Brooklyn  
 WILKINS, CLARA LOUISE.....Syracuse, N. Y.....1230 Amsterdam Avenue  
 WILLARD, KATHLEEN.....Warren, O.....417 West 118th Street  
 WILLIAMS, ADDIE DARLING.....Brooklyn, N. Y.....1230 Amsterdam Avenue  
 WILLIAMS, EMILY ALICE.....79 West 4th Street, Bayonne, N. J.  
 WILLIAMS, JEAN M. (MRS.).....205 West 103d Street  
 WILLIAMS, JULIE KELLOGG.....Great Barrington, Mass.....205 West 103d Street  
 WILLIAMS, REED.....430 West 118th Street  
 WILLIAMS, REMSEN TAYLOR.....244 Purdy Street, Long Island City, Queens Borough  
 WILLIAMS, ROLAND HUGH.....Remsen, N. Y.....120th Street and Broadway  
 Wesleyan University, B.S., 1898.
- WILLIAMSON, MERCER.....Richmond, Va.....1230 Amsterdam Avenue  
 WILLS, ANNA.....350 Jefferson Avenue, Brooklyn  
 WILSON, AGNES.....Nutley, N. J.  
 WILSON, CORNELIA GRAY.....Williamsport, Pa.....171 West 81st Street  
 Dickinson Seminary, Williamsport, Pa., A.B., 1898.

WILSON, EMELYN.....	Brooklyn, N. Y.....	415 West 118th Street
WILSON, FLORENCE THERESA.....	Williamsport, Pa.....	171 West 81st Street
WILSON, JANE.....	Nutley, N. J.....	
WILSON, MARY ANITA.....	Cripple Creek, Colo.....	416 West 118th Street
WILSON, ROBERT CLIFFORD.....	Newark, N. J.....	542 West 114th Street
WINSLOW, MARGARET SARAH.....	Brooklyn, N. Y.....	419 West 118th Street
WINTER, JOHN JOSEPH.....	Putnam Avenue, Brooklyn	204
WISE, WILLIAM WALLACE.....	200 West 70th Street	
WISEMAN, JOSEPH SCOTT.....	Westwood, N. J.....	Oakhurst, N. J.
WITTE, CLEMENTINE DORETTA.....	236 Columbia Street, Brooklyn	
WITTZEN, ANNA DOROTHEA.....	320 Communipaw Avenue, Jersey City, N. J.	
WOOD, ELEANOR FRANCES.....	Buffalo, N. Y.....	430 West 118th Street
WOOD, ELSIE.....	Greencastle, Ind.....	1230 Amsterdam Avenue
WOOD, MARY ELIZABETH.....	Williamsport, Pa.....	171 West 81st Street
WOODRUFF, JOHN KELLOGG.....	Bridgeport, Conn.	
WOODWARD, CLIFFORD AMBROSE.....	New Rochelle, N.Y.....	416 West 118th Street
WOODWARD, MAUD NEWHALL.....	Springfield, Mass.....	74 West 124th Street
WOOLF, HENRY.....	138th Street and Amsterdam Avenue	
	College of the City of New York, B.S., 1895.	
	Columbia University, A.M., 1903.	
WOOSTER, BENJAMIN COOPER.....	Ridgewood, N. J.	
WORK, NORMAN PORTER.....	Yonkers, N. Y.	
YEAGER, LEANORA.....	Kansas City, Mo.....	417 West 118th Street
YOUNG, JULIA ELEKTRA LUDLOW (Mrs.).....	1554 Broadway	
YOUNGS, JULIE ELWOOD.....	Detroit, Mich.....	1161 Amsterdam Avenue
YOUNGS, MARTHA ALICE.....	162 Chester Street, Brooklyn	
YUKAWA, KANEKICHI.....	Tokio, Japan.....	361 West 123d Street
ZIEGLER, CHARLES EDWARD.....	Roscobel Avenue and 170th Street	
	College of the City of New York, A.B., 1898.	

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## SUMMER SESSION

## Faculty of Medicine

ADAMS, ROBERT ALBERT.....	16 St. Nicholas Place	
	College of the City of New York, A.B., 1900.	
ALEXANDER, WELCOME TAYLOR.....	940 St. Nicholas Avenue	
	Bellevue Hospital Medical College, M.D., 1870.	
BARRY, DANIEL EDMUND.....	447 Lexington Avenue	
	Columbia University, M.D., 1875.	
BOPP, WALTER FREDERICK.....	39 Seventh Street	
	College of the City of New York, A.B., 1900.	
BRADY, JOHN STANLEY.....	245 West 36th Street	
	Georgetown University, A.B., 1901.	
CHAMBERLAIN, AMIS READING.....	Warwick, N. Y.....	45 West 32d Street
	Yale University, A.B., 1901.	
CLARK, WILLIAM IRVING, JR.....	127 East 30th Street	
	Columbia University, A.B., 1900.	
COERR, FREDERIC DAN HUNTINGTON.....	108 Madison Avenue	
	Columbia University, A.B., 1900.	
COHN, ALFRED EINSTEIN.....	64 East 66th Street	
	Columbia University, A.B., 1900.	
COLIE, EDWARD MARTIN, JR.....	109 Prospect Street, East Orange, N. J.	
	Columbia College, A.B., 1902.	
CONLIN, ROBERT E.....	Burlington, Vt.....	176 West 10th Street
DAVID, CHARLES THOMAS.....	31 First Street	

- DIEFFENBACH, RICHARD HAGEN.....Newark, N. J.....345 West 58th Street  
 DWIGHT, KIRBY.....31 Mt. Morris Park, West  
 Princeton University, A.B., 1901.
- FABRICIUS, JULIUS R.....2424 Davidson Avenue  
 Bellevue Hospital Medical College, M.D., 1892.
- FERRIS, CLEVELAND.....182 Alexander Avenue  
 Yale University, M.D., 1903.
- FITZ PATRICK, GILBERT.....Chicago, Ill.  
 Chicago Homœopathic Medical College, M.D., 1899.
- GOODFRIED, IGNATIUS L.....200 West 112th Street  
 University of Baltimore, M.D., 1898.
- GREENWAY, JAMES COWAN.....Hot Springs, Ark.....667 Madison Avenue  
 Yale University, A.B., 1900.
- HOLLAND, HARRY STEERS.....473 West 152d Street  
 Columbia University, A.B., 1902.
- KALISKI, DAVID JOHN.....1977 Second Avenue
- KIMBALL, CLEVELAND CADY.....110 East 29th Street  
 Amherst, A.B., 1900.
- LATHROPE, GEORGE HAINES.....Scranton, Pa.....317 West 58th Street  
 Princeton University, A.B., 1900.
- LEGGETT, NOEL BLEECKER.....West New Brighton, S. I.....143 West 61st Street
- LIPSCHUTZ, JACOB M.....204 East Broadway
- LONG, JAMES McMASTERS.....Pittsburgh, Pa.....325 West 58th Street  
 Yale University, A.B., 1900.
- MASON, HOWARD HARRIS.....Providence, R. I.....317 West 58th Street  
 Brown University, A.B., 1900.
- MOGULESKO, JULIUS LAWRENCE.....125 East 101st Street
- MORGAN, FORDÉ.....200 West 106th Street  
 Bellevue Hospital Medical College, M.D., 1892.
- MOUNT, WALTER BARCLAY.....East Orange, N. J.....138 West 64th Street  
 Princeton University, A.B., 1901.
- NISSSELSON, MAX.....253-257 Broome Street
- OPDYKE, CHARLES POMEROY.....728 Ocean Avenue, Jersey City, N. J.  
 N. Y. Homœopathic Medical College, M.D., 1889.
- ORLANDO, JAMES.....337 East 106th Street
- OTTENBERG, REUBEN.....58 East 92d Street  
 Columbia University, A.B., 1902.
- PADDOCK, BRACE WHITMAN.....Pittsfield, Mass.....317 West 58th Street  
 Yale University, A.B., 1900.
- PAYNE, GUY.....Verona, N. J.  
 Bellevue Hospital Medical College, M.D., 1898.
- RIDLEY, ROBERT BERRIEN, JR.....Atlanta, Ga.....316 West 58th Street  
 Atlanta College of Physicians and Surgeons, M.D., 1902.
- RINGER, PAUL HENRY.....312 Manhattan Avenue  
 Columbia University, A.B., 1901.
- RUBIN, ISIDOR.....232 Fifth Street
- SCHÜCK, TRAUOGOTT JOHN.....2 Newark Street, Hoboken, N. J.
- SCHULMAN, MAXIMILIAN.....58 West 115th Street
- SHENSTONE, NORMAN STRAHAN.....Toronto, Ontario, Can.....138 West 64th Street  
 Toronto University, A.B., 1901.
- SILLIMAN, JOHN CALVIN.....Palestine, Texas.....318 West 57th Street  
 University of Virginia, A.B., 1899.
- SMITH, ELLSWORTH JOHNSON.....North Haven, Conn.....318 West 57th Street  
 Yale University, Ph.B., 1900.



SMITH, GEORGE MILTON.....	253 West 75th Street Yale University, A.B., 1901.
TOWNSHEND, RAYNHAM.....	New Haven, Conn.....181 West 75th Street Yale University, Ph.B., 1901.
VAN DER VEER, ALBERT, JR.....	Albany, N. Y.....317 West 58th Street Yale University, A.B., 1900.
WAKEFIELD, FREDERICK SYMONDS.....	Bridgeport, Conn.....139 West 63d Street Bates College, A.B., 1895. Columbia University, M.D., 1899.
WATERMAN, WILLIAM WHITNEY.....	567 West 113th Street
WHITE, DAVENPORT.....	Cannon's Station, Conn.....328 West 56th Street Yale University, Ph.B., 1901.
WOLFE, DE WITT HENRY HARTE.....	1607 Fourth Avenue, Louisville, Ky. Kentucky University, M.D., 1903.
WOLF, JACOB IRVING.....	33 Essex Street College of the City of New York, B.S., 1901.
WOODRUFF, STANLEY ROGERS.....	Bayonne, N. J. Yale University, M.D., 1897.

## UNIVERSITY BIBLIOGRAPHY

FOR THE ACADEMIC YEAR ENDING JULY 1, 1903

### I. Official Publications of Columbia University

**Annual Catalogue:** describes the organization of the University, and gives a full statement of courses and facilities for research offered during the current year, lists of officers and students, accounts of fellowships, scholarships, and honors offered and conferred, estimates of expenses, requirements for admission and degrees, and the regulations governing the College and the various Schools of the University: Issued each December. Price, 25 cents.

**Annual Reports of the President and the Treasurer to the Trustees:** issued each November.

**Directory of Officers and Students:** issued each year soon after the opening of the University; contains the names, office hours, and addresses of the officers of the University, and the names and addresses of the students registered up to the time of publication; revised and reprinted in the **Catalogue**.

**General Catalogue of the Alumni:** issued sextennially; contains the names and addresses of all graduates of the University. The current edition is that of 1900. Price, \$2.00. For sale at the University Press Bookstore and in the office of the Registrar.

**Announcements** of the various Schools of the University are issued in the spring of each year and contain information concerning admission, expenses, courses of instruction to be given during the coming year, and requirements for degrees. They include:

**Announcement of Columbia College,** for the work for men leading to the degree of Bachelor of Arts.

**Announcement of the School of Law,** for the work leading to the degrees of Bachelor of Laws and Master of Laws.

**Announcement of the College of Physicians and Surgeons,** for the work leading to the degree of Doctor of Medicine.

**Announcement of the Schools of Applied Science,** together with the special announcements of the courses in Mining and Metallurgy, in Chemistry, and in Civil, Electrical, and Mechanical Engineering.

**Announcement of the Faculties of Political Science, Philosophy, and Pure Science,** for all non-professional advanced work leading to the degrees of Master of Arts, Doctor of Philosophy, and Master of Laws.

**Announcement of Courses in the Fine Arts**, including courses of instruction given in the School of Architecture, in the Department of Music, and in the Departments of Fine Arts and Music in Teachers College.

**Announcement of the Summer Session.**

**Announcement of the Summer Session of Medicine.**

**Circular of Information as to Entrance Examinations.**

**Circular of General Information**, with views of the University buildings.

**Announcements** of the several divisions of the University are issued in the spring, and contain full information concerning the work of the coming year, or years, in those divisions. These circulars are devoted to Biology; Classical Philology; Geology, Geography, and Mineralogy; History, Economics, and Public Law; Mathematical and Physical Science; Modern Languages and Literatures; Physical Education; Oriental Languages; Philosophy, Psychology, and Anthropology.

Unless otherwise stated, all the publications above named are distributed without charge upon application to the Secretary of Columbia University.

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Publications of Barnard College:

**Announcement of Barnard College:** contains full information concerning admission, expenses, courses of instruction, and requirements for the degree of Bachelor of Arts.

**Report of the Dean:** issued yearly.

These publications are distributed without charge upon application to the Dean of Barnard College.

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Publications of Teachers College:

**Announcement of Teachers College:** issued annually; contains full information concerning the organization, equipment, and work of this institution, the Department of Education of Columbia University.

**Report of the Dean:** issued each November.

**Circulars** describing the work of the following departments:

Domestic Science and Art; Domestic Science, describing a course in hospital economics; Fine Arts; Geography; Kindergarten; Manual Arts; Manual Training; and Music. Also a special **Announcement of the Extension Department.**

These may be obtained without charge upon application to the Secretary of Teachers College.

**Circular of the Horace Mann School;** a school fully equipped with kindergarten, elementary, and secondary classes, maintained by Teachers College as a school of observation and practice.

This circular may be obtained without charge upon application to the Superintendent of the Horace Mann School.

## II. The Columbia University Press

The Columbia University Press was organized with the approval of the Trustees of Columbia College and was incorporated June 8, 1893, for the purpose of promoting the publication of works embodying the results of original research. The Press is a private corporation, related directly to Columbia University by the provisions that its Trustees must always be officers of the University, and that the President of the University shall be the President of the Press.

### Trustees

THE PRESIDENT OF THE UNIVERSITY (*ex-officio*)

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During the year ending July 1, 1903, the Press, through The Macmillan Co., of New York and London, its publishing agents, issued "China and the Chinese," by H. A. Giles, and an "Introduction to Philosophy," by W. T. Marvin, as well as current numbers of the following:<sup>1</sup>

Studies in Classical Philology; Studies in Comparative Literature; Studies in History, Economics, and Public Law; Contributions to Philosophy, Psychology, and Education; Studies in Romance Philology and Literature; *Columbia University Quarterly* and *Teachers College Record*.

## III. Publications, Contributions, and Serial Studies from the University<sup>2</sup>

**Biological Series.**—Founded in 1892; devoted to the general problems of biology; managing editors, H. F. Osborn and E. B. Wilson; published for the Columbia University Press by The Macmillan Co., New York; issued irregularly, about one volume a year; price per volume (from 300 to 400 pages), \$2.00 to \$3.50.

<sup>1</sup> For previous issues from the Press see the *University Catalogue* for 1899-1900, pages 398-399; 1900-1901, pages 455-456; 1901-1902, pages 439-441; 1902-1903, pages 445-449; and the full catalogue issued by The Macmillan Co.

<sup>2</sup> For purposes of record and information, it is the aim to publish each year a complete list of the numbers issued in each of these series during the preceding academic year. If no list appears under a given heading, it may be assumed that no numbers were issued.



**Botanical Club, Memoirs of the Torrey.**—Founded in 1889; editor, L. M. Underwood; published by the Club from Columbia University; issued irregularly, about one volume a year; \$3.00 per volume; prices of parts on application.

Vol. VIII, No. 3. The life history of *Vittaria lineata*. By ELIZABETH G. BRITTON and ALEXANDRINIA TAYLOR.—Vol. IX. A monograph of the *Erysiphaceae*. By ERNEST S. SALMON.—Vol. X. Pre-Clusian botany in its relation to *Aster*. By EDWARD S. BURGESS.—Vol. XI, No. 1. The North American *Sordariaceae*. By DAVID GRIFFITHS.—Vol. XI, No. 2. The *Ulothricaceae* and *Chatophoraceae* of the United States. By TRACEY E. HAZEN.—Vol. XII, No. 1. Flora of New Providence and Andros (Bahama Islands). By ALICE R. NORTHEROP.

**Botany, Contributions from the Department of.**—Founded in 1886; devoted to short papers, in part reprints from other periodicals; editor, L. M. Underwood; published by the editor from Columbia University; issued irregularly, but usually one volume per year; price per volume (about 330 pages, 30 plates), \$5.00.

No. 193. Cytological changes accompanying the secretion of diastase. By JOHN C. TORREY (1902).—No. 194. A historical review of the proposed genera of the *Hydnaceae*. By HOWARD J. BANKER (1902).—No. 195. Notes on a collection of Cuban Pteridophyta, with descriptions of four new species. By LUCIEN M. UNDERWOOD and WILLIAM R. MAXON (1902).—No. 196. American ferns, IV. The genus *Gymnogramme* of the synopsis filicum. By LUCIEN M. UNDERWOOD (1902).—No. 197. A cytological basis of the Mendelian laws. By WILLIAM A. CANNON (1902).—No. 198. Two new species of *Selaginella* in the southern flora. By LUCIEN M. UNDERWOOD (1902).—No. 199. American ferns, V. A review of the genus *Dawsonia*. By LUCIEN M. UNDERWOOD (1902).—No. 200. An enumeration of the plants collected by Dr. H. H. Rusby in South America. By H. H. RUSBY (1902).—No. 201. An index to the described species of *Botrychium*. By LUCIEN M. UNDERWOOD (1903).—No. 202. Studies in plant hybrids: The spermatogenesis of hybrid cotton. By WILLIAM A. CANNON (1903).

**Botany, Memoirs of the Department of.**—Founded in 1895; devoted to more extended monographs; managing editor, L. M. Underwood; published by the editor, from Columbia University; issued irregularly; \$6.00 per volume; list on application.

**Chemistry, Contributions from the Havemeyer Laboratories.**—Founded in 1898; reprints of papers recording research by officers and students in the School of Chemistry; managing editor, C. F. Chandler; published by the editor from Columbia University; issued annually; each volume contains the publications of one year beginning July 1; price on application.

Vol. V, No. 66. On the composition of the ferrocyanides of zinc. By EDMUND H. MILLER and J. L. DANZIGER.—No. 67. On the determination of lead in ores. By IRVING C. BULL.—No. 68. On the determination of sulphur in coal. By C. W. STODDART.—No. 69. On the manganese ferrocyanides. By ALBERT E. DICKIE.—No. 70. The synthesis of alkylidihydroquinazolines from anthranilic nitrile. By MARSTON T. BOGERT and W. F. HAND.—No. 71. The determination of sulphur and phosphorus in organic materials. By HENRY C. SHERMAN.—No. 72. The volumetric determination of bismuth as molybdate and its separation from copper. By HERMANN S. RIEDERER.—No. 73. Experiments on the metabolism of nitrogen, sulphur, and phosphorus in the human organism. By H. C. SHERMAN.—No. 74. On the composition of cows' milk. By H. C. SHERMAN.—No. 75. Normal heptyl thiocyanate and some new alkyl esters of dithiocarbamic acid. By M. T. BOGERT.—No. 76. The

synthesis of alkylthioetodihydroquinazolines from anthranilic nitrile. By M. T. BOGERT, H. C. BRENNEMAN, and W. F. HAND.—No. 77. Paraammonio aminobenzonitrile. By M. T. BOGERT and L. KOHNSTAMM.—No. 78. Nitrophthalyl chloride and its action with ammonia and aromatic amines. By VICTOR J. CHAMBERS.—No. 79. A new interrupter for conductivity determinations. By C. W. KANOLT.—No. 80. A rapid method for the determination of arsenic in arsenopyrite. By J. L. DANGER and W. H. BUCKHOUT.—No. 81. An index to the literature of thorium, 1828-1902. By CAVALIER H. JOÛET.

**Classical Philology, Studies in.**—Founded in 1902; contain results of original research in the classical languages and literatures; edited by H. T. Peck and E. D. Perry; published for the Columbia University Press by The Macmillan Co., New York; issued irregularly; prices variable.

The satire of Seneca on the Apotheosis of Claudius. By ALLAN PERLEY BALL.

**Comparative Literature, Studies in.**—Founded in 1899; contain results of literary research or criticism by officers or students of the Department of Comparative Literature, or those connected with them in study; editor, G. E. Woodberry; published for the Columbia University Press by The Macmillan Co., New York; issued irregularly at varying prices.

No. 6. Platonism in English poetry in the sixteenth and seventeenth centuries. By JOHN SMITH HARRISON.—No. 7. Irish life in Irish fiction. By HORATIO SHEAFE KRANS.—No. 8. The English heroic play. By LEWIS NATHANIEL CHASE.

**Electrical Engineering, Contributions from the Department of.**—Founded in 1889; devoted to papers (chiefly reprints) by officers and students; managing editor, F. B. Crocker; published by the editor, from Columbia University; issued irregularly; prices on application.

**English, Studies in.**—Founded in 1900; issued by authority of the Department of English; published for the Columbia University Press by The Macmillan Co., New York; issued irregularly at varying prices.

**Geological Department, Contributions from the.**—Founded in 1892; include short contributions and longer monographs; managing editor, J. F. Kemp; published (partly original, partly reprints) by the editor, from Columbia University; issued irregularly; prices on application.

Volume X complete. No. 81. The geology of the platinum group of metals. By J. F. KEMP.—No. 82. The traverse group of Michigan. By A. W. GRABAU.—No. 83. The Hamilton group of Thedford, Ontario. By H. W. SHIMER and A. W. GRABAU.—No. 84. Glacial phenomena in the Adirondacks and Champlain Valley. By I. H. OGILVIE.—No. 85. An analcite-bearing camptonite from New Mexico. By I. H. OGILVIE.—No. 86. Igneous rocks and circulating waters as factors in ore deposition. By J. F. KEMP.—No. 87. A. The granite area of Barre, Vermont. By GEO. I. FINLAY. B. Petrographic description of the dikes of Grand Isle, Vermont. By H. W. SHIMER. C. Note on the condition of platinum in the nickel-copper ores from Sudbury. By CHAS. W. DICKSON.—No. 88. A. Some new American species of cyclus from the coal measures. By A. F. ROGERS. B. On some Jurassic fossils from Durango, Mexico. By D. W. JOHNSON.—No. 89. Studies of *Gastropoda*. By A. W.

GRABAU.—No. 90. The geology of the Cerrillos Hills, New Mexico. By D. W. JOHNSON.

**Germanic Studies.**—Founded in 1899; contain results of original research in Germanic languages and literatures; editors, W. H. Carpenter and Calvin Thomas; published for the Columbia University Press by The Macmillan Co., New York; issued irregularly; price variable.

**History, Economics, and Public Law, Studies in.**—Founded in 1891; contain results of original research by students in the School of Political Science; managing editor, E. R. A. Seligman; published by The Macmillan Co., New York; one volume or more issued yearly; price per volume, \$3.00 to \$4.50.

Vol. XVI, No. 3. The centralization of administration in Ohio. By SAMUEL P. ORTH.—Vol. XVII, No. 1. Centralizing tendencies in the administration of Indiana. By WILLIAM A. RAWLES.—No. 2. Principles of justice in taxation. By STEPHEN F. WESTON.—Vol. XVIII, No. 1. The administration of Iowa. By HAROLD M. BOWMAN.—No. 2. Turgot and the six edicts. By ROBERT P. SHEPHERD.

**Indo-Iranian Series.**—Founded in 1900; contain works published by officers and students in the Department of Indo-Iranian Languages, or by others associated with them in study; editor, A. V. Williams Jackson; published for the Columbia University Press by The Macmillan Co., New York; issued irregularly at varying prices.

**Library Bulletins.**—Founded in 1897 as *Publications*; show the resources of the Library on various subjects; editor, C. Alex. Nelson; published by the Library, from Columbia University; issued irregularly.

No. 2. Books on education in the Libraries of Columbia University. (Pp. vi. and 435, \$1.00 net.)

Catalogue raisonnée. Works on book-binding practical and historical. Examples of book-bindings of the XVI. to XIXth centuries. From the collection of Samuel Putnam Avery, A.M.; exhibited at Columbia University Library, 1903. Privately printed, New York. (Pp. xii. and 108.)

**Mineralogy, Contributions from the Department of.**—Founded in 1892; contain articles and text-books by officers and students; managing editor, A. J. Moses; published by the editor, from Columbia University; issued irregularly (often in reprint); prices on application.

Vol. X, No. 3. Notes on recent mineralogical literature. By A. J. MOSES and L. McI. LUQUER.—No. 4. Minerals observed on buried Chinese coins. By A. F. ROGERS.

**Observatory, Contributions from the.**—Founded in 1892; devoted to original research; managing editor, J. K. Rees; published by the editor, from Columbia University; issued irregularly; prices on application.

**Oriental Studies.**—Founded in 1902; record results of original research in the Oriental languages and literatures; edited by Richard J. H. Gottheil; published for the Columbia University Press by The Macmillan Co., New York; issued irregularly; prices variable.



**Pathology, Studies from the Department of.**—Founded in 1890; record results of research in the department; managing editor, T. M. Prudden; on sale by J. T. Dougherty, New York; issued irregularly; price per volume (about 175 pp.), \$1.00.

Vol. VIII. Eighteen reprints of studies published by officers of the Department of Pathology. 1902.

**Philosophy, Psychology, and Education, Contributions to.**—Founded in 1894; original studies by officers and students of this division; edited by a committee representing the departments interested; published by The Macmillan Co., New York; issued irregularly; per number, average, 75c.; per volume (about 450 pages), average, \$3.00.

Vol. IX, No. 3. The practice-curve: A study in the formation of habits. By JOSEPH HERSHEY BAIR.—No. 4. Rhythms: motor, visual, and applied. By JAMES BURT MINER.—Vol. XI, No. 1. School administration in municipal government. By FRANK ROLLINS.—No. 2. Heredity, correlation, and sex differences in school abilities. By EDWARD L. THORNDIKE.—Nos. 3-4. College admission requirements during the nineteenth century. By EDWIN C. BROOME.—Vol. XII, Nos. 1-4. The training of secondary teachers in the United States. By G. W. A. LUCKEY.—Vol. XIII, No. 1. The perception of number. By JAMES FRANKLIN MESSENGER.—No. 2. A study of memory for connected trains of thought. By ERNEST NORTON HENDERSON.

**Romance Philology and Literature, Studies in.**—Founded in 1900; edited by Adolphe Cohn and H. A. Todd; published for the Columbia University Press by The Macmillan Co., New York; issued irregularly at varying prices.

No. 4. The indebtedness of Chaucer's *Troilus and Criseyde* Guido delle Colonne's *Historia Trojana*. By GEORGE L. HAMILTON.

### Series Announced

**Physiological Chemistry, Studies from the Department of.**—Founded in 1899; contain reprints of papers published by officers and other investigators in the department. Edited by William J. Gies. First volume, 600-700 pp., in preparation. Future volumes to be issued irregularly.

**Physiology, Studies from the Department of.**—Founded in 1900; contain reprints of articles published by officers and students of the department; edited by J. G. Curtis and F. S. Lee. (Three volumes in preparation.)

## IV. Journals

*Issued under the Editorial Direction of Officers of Columbia University*

**Bookman.**—Founded in 1895; devoted to the criticism of American and foreign literature in all its forms; containing articles, book reviews, correspondence, and editorial comment upon current events; edited by Harry Thurston Peck; New York: Dodd, Mead & Co.; monthly (136 pp.), 20c.; per year, \$2.00.



- Bulletin of the Torrey Botanical Club.**—Founded in 1870; devoted to scientific botany in its widest sense; editor, J. H. Barnhart; published by the editor from the New York Botanical Garden; monthly, 30c.; per year (about 650 pp., with 40 plates), \$3.00.
- Columbia University Quarterly.**—Continuing, since 1898, the *Bulletin*, founded in 1890; publishes articles on the history, the current activities, and the policy of Columbia, for the information of officers, alumni, and friends of the University; edited by a committee (managing editor, for 1903, Munroe Smith; for 1904, Brander Matthews); published for the Columbia University Press by the New Era Pr. C.; quarterly (125 pages), 30c.; per year, \$1.00.
- Educational Review.**—Founded in 1890; devoted to the study of education in all its forms; containing articles, discussions, book reviews, foreign correspondence, and editorial review of current events; edited by Nicholas Murray Butler; New York: Educational Review Publishing Co.; monthly, except July and August (108 pp.); per year, \$3.00; foreign, \$3.50.
- Journal of Comparative Literature.**—Founded in 1903; devoted to the interests of the study of comparative literature in this country and in Europe; its contributors are scholars of all lands, and contributions are printed in the tongues in which they are written; edited by G. E. Woodberry, J. E. Spingarn, and J. B. Fletcher (Harvard); New York: McClure, Phillips & Co.; quarterly; per year, \$3.00.
- Journal of Geography.**—Devoted to the interests of teachers of geography in elementary, secondary, and normal schools; edited by Richard E. Dodge in coöperation with Edward M. Lehnerts (Winona, Minn.); published for the editors by Rand, McNally & Co., Chicago; monthly, except July and August (48 pp.), 20c.; per year, \$1.50.
- Journal of Nervous and Mental Disease.**—Founded in 1872; devoted to the study of diseases of the nervous system; managing editor, S. E. Jelliffe; advisory board of editors includes M. A. Starr and F. Peterson; New York: Alliance Press Co.; monthly (64 pp.), 25c.; per year, \$3.00.
- Medical News.**—Founded in 1843; a weekly journal devoted to advances in medicine and surgery; editor, S. E. Jelliffe; New York: Lea Brothers & Co.; weekly (48 pp.), 10c.; per year \$4.00.
- Political Science Quarterly.**—Founded in 1886; devoted to the study of politics, economics, and public law; publishes annually about 25 leading articles, especially on questions of current interest, and about 130 reviews, and gives a condensed general record of political events; edited by the Faculty of Political Science (managing editor, W. A. Dunning); Boston and New York: Ginn & Co.; quarterly (about 190 pp.), 75c.; per year, \$3.00.

**Popular Science Monthly.**—Founded in 1872; devoted to the diffusion of science; edited by J. McK. Cattell; New York: The Science Press; monthly (96 pp.), 30c.; per year, \$3.00.

**School of Mines Quarterly.**—Founded in 1879; official organ of the Alumni Association of the Schools of Science of Columbia University; devoted to the publication of original papers on engineering, metallurgy, chemistry, architecture, mineralogy, and geology; managing editor, R. E. Mayer; published by the editors; per year, \$2.00.

**Teachers College Record.**—Founded in 1899; devoted to the presentation of the theory and practice of education as advocated by Teachers College of Columbia University; edited by J. E. Russell; published for the Columbia University Press by The Macmillan Co., New York; bi-monthly, except July (about 64 pp.), 30c.; per year, \$1.00.

**Torrey.**—Founded in 1901; a monthly journal of botanical notes and news; devoted to shorter articles than appear in the *Bulletin*, together with book reviews; editor, Marshall A. Howe; published by the Club; monthly, 15c.; per year, \$1.00.

*Issued with the Editorial Coöperation of Officers of Columbia University*

**Americana Germanica.**—Founded in 1897; devoted to the comparative study of the literary, linguistic, and other cultural relations of Germany and America; contains original researches, critical articles and reviews; contributing editors include W. H. Carpenter and Calvin Thomas. New York: The Macmillan Co.; quarterly (about 112 pp.), 75c.; per year, \$2.00.

**American Anthropologist.**—Founded in 1888; contains original contributions and reviews on anthropology; edited by a board, including Franz Boas; New York: The Science Press; quarterly, \$1.25; per year (about 800 pp.), \$4.00.

**American Historical Review.**—Founded in 1896; devoted to the interests of historical study in the United States, it publishes reviews of important works, results of original research, documents for the use of investigators, and news of the work of European scholars; six editors, including W. M. Sloane; New York: The Macmillan Co.; quarterly; per year, \$3.00.

**American Journal of Anatomy.**—Founded in 1901; edited by a board including G. S. Huntington; published in Baltimore; quarterly; per year, \$5.00.

**American Journal of Archæology.**—Founded in 1885; official journal of the Archæological Institute of America, publishing papers of the Institute and of the Schools at Athens, in Rome, and in Palestine, and annual reports of these bodies, and issuing special

bulletins; honorary editors include J. R. Wheeler; business manager is C. H. Young; New York: The Macmillan Co.; quarterly, \$1.50; per year, \$5.00.

**American Journal of Medical Sciences.**—Founded in 1820; S. E. Jelliffe, editorial supervision of Department of Therapeutics, with R. W. Wilcox; Philadelphia: Lea Brothers & Co.; monthly (192 pp.); per year, \$5.00.

**American Journal of Physiology.**—Founded in 1898; edited for the American Physiological Society; contains original contributions on purely physiological subjects; seven editors, including F. S. Lee; Boston: Ginn & Co.; monthly; per volume (about 500 pp.), \$5.00.

**Biological Bulletin.**—Founded in 1899; contains short original contributions; seven editors, including E. B. Wilson.

**Bulletin of the American Mathematical Society.**—Founded in 1891; a historical and critical review of mathematical science, containing also lists of new publications, notes on current events in the mathematical world, and many short original articles; editors, F. N. Cole, D. E. Smith, and others; New York: The Macmillan Co.; monthly, except July and August; per year (about 500 pp.), \$5.00.

**Journal of the American Chemical Society.**—Founded in 1878; official journal of the American Chemical Society; devoted to the publication of articles upon recent chemical investigations and similar topics. The board of reviewers of American chemical research includes M. T. Bogert; published by the Chemical Publishing Co., Easton, Pa.; monthly, 50c.; per year (about 2000 pp.), \$6.00.

**Journal of Comparative Neurology.**—Founded in 1891; devoted to the comparative study of the nervous system; includes original compositions, reviews, and notices; associate editors include O. S. Strong, with collaboration of F. S. Lee and others; published at Granville, Ohio; quarterly; per year, \$3.50.

**Journal of Experimental Medicine.**—Founded in 1896; devoted to the interests of scientific medicine; associate editors include T. M. Prudden; New York: D. Appleton & Co.; per volume (6 parts, about 700 pp.), \$5.00.

**Journal of Morphology.**—Founded in 1887; contains original contributions on purely morphological subjects; seven editors, including E. B. Wilson; Boston: Ginn & Co.; quarterly; per year, \$9.00.

**Modern Philology.**—Founded in 1903; a journal devoted to research in modern languages and literatures; advisory board includes Calvin Thomas; published by the University of Chicago Press; quarterly; per year, \$3.00.

**Psychological Review.**—Founded in 1894; devoted to the publication of original researches in psychology, critical articles, and reviews; edited by J. McK. Cattell and J. M. Baldwin (Princeton), with the coöperation of M. Allen Starr and others; published bi-monthly, with an annual index and numerous monograph supplements; New York: The Macmillan Co.; the *Review*, 75c.; per year (about 700 pp.), \$4.00; the *Index* (about 200 pp.), \$1.00; the *Monographs* (about 500 pp.), \$4.00 a volume.

**Science.**—Founded in 1883; devoted to the advancement of science; edited by J. McK. Cattell, with an editorial committee, including N. L. Britton, H. F. Osborn, R. S. Woodward, and others; New York: The Macmillan Co.; weekly, 15c.; per year (about 2000 pp.), \$5.00.

**Transactions of the American Mathematical Society.**—Founded in 1900; a journal devoted primarily to research in pure and applied mathematics; the official organ of the Society for the publication of important papers read before it; three editors, including T. S. Fiske; New York: The Macmillan Co.; quarterly; per year (about 500 pp.), \$5.00.

## V. Student Publications at Columbia

**The Barnard Bulletin.**—Founded in 1901; a four-page sheet, issued weekly, containing Barnard College news; per copy, 5c.; per year, \$1.50.

**The Columbia Jester.**—Founded in 1901; an illustrated comic paper; edited by a board of students; published twice a month during the college year; averages ten pages of reading matter and illustrations and a cartoon cover; per copy, 15c.; per year, \$1.50; (by mail, \$2.00).

**The Columbia Law Review.**—Founded in 1901; devoted to the publication of legal articles and book reviews by writers of recognized authority, and comment upon recent cases by the editors; conducted by a board of editors, averaging sixteen in number; monthly, November to June; (70 pp.); per copy, 30c.; per year, \$2.00.

**The Columbia Literary Monthly.**—Founded in 1893; a magazine exclusively literary, devoted chiefly to stories, verse, essays, editorials, and book reviews; edited by a board, consisting of college undergraduates and a Barnard representative; monthly, November to June, (40 pp.); per copy, 15c.; per year, \$1.00 (by mail \$1.25).

**The Columbian.**—The annual; a bound illustrated volume, containing statistics of athletics, fraternity membership, class achievements, and other valuable information concerning student life in the University for the year just past; published the week before



Christmas by a board of twelve editors from the junior class, six elected from Columbia College and six from the Schools of Applied Science. The fourteenth volume was published by the class of 1904, at \$1.50.

- The Columbia Spectator.**—Founded in 1877; published daily, except Sunday, during the college year; edited by a managing board of five, assisted by a board of six editors and from twelve to twenty-five associate editors; per copy, 3c.; per year, \$4.00.
- The Morningside.**—Founded in 1896; an illustrated literary magazine, aiming chiefly to reflect the lighter and brighter side of Columbia life; edited by a board, averaging ten members, including a Barnard representative and an art editor; published every third week of the academic year, (30 pp.); per copy, 10c.; per year, \$1.00.
- The Mortarboard.**—Founded in 1897; an annual corresponding to the *Columbian*, but more literary in character, including, besides the history of the junior class, poems, stories, and sketches, and other reading matter; published early in the second term by a board of about eight, elected from the junior class of Barnard College; price, \$1.00.
- The Senior Class-Book.**—A book privately printed by the senior class of Columbia College, through an editorial board, and distributed on class-day. Revived by the class of 1899 and continued by the class of 1900 as the *Naughty-Naughtian*, by the class of 1901 as the *1901 Class-Book*, by the class of 1902 as the *1902 Class-Book*, and by the class of 1903 as the *1903 Class-Book*, including pictures and autobiographies of the members, letters from the faculty, and the class-day speeches. The 1903 book contains 236 pages, is bound in cloth, and sells for \$6.00.

## Degrees Conferred during 1902-1903

### Bachelor of Arts

#### COLUMBIA COLLEGE

CLINTON GILBERT ABBOTT  
ALMON EDGAR ADAMS  
FREDERIC JOSEPH AGATE  
THEODORE HENRY ALLEN  
WILLIAM FITCH ALLEN  
MARTIN CHARLES ANSORGE  
DAVID ASCH  
JOHN JAMES BAKERMAN  
GEORGE FREDERICK BAMBACH  
NATHANIEL WARING BARNES  
ROBERT BRADFORD BARTHOLOMEW  
MURRAY HAROLD BASS  
JAMES BASSETT, Jr.  
ALEXANDER OTTO BECHERT  
HENRY RUTGERS BEEKMAN  
JOSEPH S. BIKLÉ  
MARCUS ISSER BLANK, M.D.  
YEOMAN BRIGGS  
HERBERT CORLIES BRINCKERHOFF  
GEORGE HENRY BUTLER, Jr.  
LOUIS CASAMAJOR  
DAYTON COLIE  
WILLIAM PHILLIPS COMSTOCK  
JOHN WHITING CROWELL  
ALBERT DAVIS  
MARCELLUS HARTLEY DODGE  
PENDLETON DUDLEY  
HARRY HAMMAN DYRSSEN  
VICTOR DE LA MONTAGNE EARLE  
ARTHUR FREDERICK EGNER  
HENRY HART ELIAS  
PIERCE PHILIP FERRIS  
COLIN GARFIELD FINK  
JAY IRVING FORT  
WALTER FRANK  
LEONHARD FELIX FULD  
LEON NATHAN FUTTER  
JOHN WILLIAM GOPP, Jr.  
EMANUEL GOLDENWEISER  
HERBERT JOSEPH HAAS  
RICHARD COMPTON HARRISON  
CHARLES LE ROY HENDRICKSON  
HENRY KOCH HEYMAN

WILLIAM FORREST HILLS  
ALFRED HOFFMANN  
PERRY DEXTER HUNT  
STANLEY MYER ISAACS  
LEWIS ISELIN  
MAURICE LAMOTTE JENKS  
ELY JACQUES KAHN  
HOWARD ALLAN KEELER  
NICHOLAS AUGUST KOENIG  
PHILIP BEVAN LA ROCHE, Jr.  
CHARLES FRANCIS LAWSON  
BARENT LEFFERTS  
FRANK WILSON LINDSLEY  
HERBERT SPENCER LOVEMAN  
HAROLD CHAFFEE MCCOLLOM  
HERBERT MONTGOMERY MCINTOCK  
HERBERT DAVID MANDELBAUM  
JAMES GARFIELD MOSES  
HERBERT ROE ODELL  
LOUIS S. ODELL  
GERALD STUART O'LOUGHLIN  
THOMAS LOCKWOOD PERRY  
HARRY TWYFORD PETERS  
ROBERT LINCOLN REID  
ARTHUR MALCOLM REIS  
BERNARD HERMAN RIDDER  
LAWRASON RIGGS, Jr.  
ARNOLD ORESTES SCHRAMM  
RUDOLPH CARL THEODORE SCHROEDER,  
Jr.  
ROBERT SCHULMAN  
ROBERT LIVINGSTON SCHUYLER  
HARVEY AMBROSE SEIL  
HAROLD SHIELDS  
JEROME BENJAMIN SHOENFELD  
KENNETH MILLER SIMPSON  
WALTER SCOTT SPIEGELBERG  
HARRY WYLBUR STANLEY  
GEORGE AUGUSTUS KEEN SUTTON  
JOHN AUGUST SWENSON  
JOHN WARNER TAYLOR  
SAMUEL ABRAHAM TELSEY  
WILLIAM FREDERICK THOMAN

LLOYD BRANT THOMAS  
 BENJAMIN ABNER TINTNER  
 CHARLES DOSWELL TOMKIES  
 CAMILLE AUGUSTUS TOUSSAINT  
 HENRY CLARK TOWNSEND, JR.  
 WILLIAM FYFE TURNBULL  
 RUDOLPH LUDWIG VON BERNUTH  
 BENJAMIN RUDOLPH VON SHOLLY  
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RALPH HENRY WADDELL  
 LEONARD MICHAEL WALLSTEIN  
 GEORGE EARLE WARREN  
 FREDERIC LYMAN WELLS  
 GERARD BERNARD WERNER  
 EDWIN WOLFF  
 CHRISTOPHER BILLOPP WYATT  
 CLARENCE JOHNSON WYCKOFF

## BARNARD COLLEGE

JESSIE ALICE ADDOMS  
 GULIELMA FELL ALSOP  
 MARION ELIZABETH PRUYN BALL  
 ALICE CLARA JUDITH BAMBERGER  
 ANITA GELLA CAHN  
 FLORENCE PALMER CHEESMAN  
 GERTRUDE HELEN CLARK  
 BERTHA CLOUGH  
 HELEN LOUISE COHEN  
 MARY ELIZABETH SCOVELL COLT  
 HARRIET MCDOUAL DANIELS  
 ELLICE HEATON FITCH  
 EDNA LOUISE FRY  
 MARY GROFF  
 CLARA EMILIE GRUENING  
 MARY FREDERICKA HARRISON  
 ELSA GOLDINA HERZFELD  
 SARAH ADALINE HOLT  
 IDA MAY HOPE  
 ELIZABETH HORN  
 CLARE MACLLELEN HOWARD  
 RUTH BOUTON HOWE  
 MAY AMERMAN JOHNSON

EDNA BLANCHE JONES  
 HELEN LOUISE KING  
 LUCILE KOHN  
 ELSBETH KROEBER  
 MARION ELIZABETH LATHAM  
 JEAN WALLACE MILLER  
 ETHEL BLANCHARD NEWTON  
 ETHEL MANTER POOL  
 KATHERINE ELLEN POOLE  
 AMELIA MAUDE ROBINSON  
 HELEN MILES ROGERS  
 ELLEN RILEY RUSHMORE  
 LAURA RANDOLPH SEGUINE  
 MAISIE SEVILLE SHAINWALD  
 LUCY FIDELIA SHERMAN  
 MADELEINE DAYRELL SKINNER  
 BESSIE LISLEY THOMPSON  
 LOUISE JOSEPHINE COLVIN TOSCANO  
 LAURA KNOWLES VAN CISE  
 ADELE NETTIE WALLACH  
 ELIZABETH ROE WALTERS  
 ANNA GOODWIN WARE  
 MARIE HENRIETTA DETLEF WEDEMAYER

ETHEL DODGE WILCOX

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## Bachelor of Laws

PAUL SMITH ACHE, C.E.  
 HENRY GARFIELD ALSBERG, A.B.  
 HOMER DANIEL ANGELL, A.B., A.M.  
 HUGO JAMES BARTHOLOMAE  
 WYLLYS POMEROY BAXTER  
 WILLIAM BROWN BELL, A.B., A.M.  
 CLARENCE IDE BOARDMAN  
 EDWARD MORTIMER BOYLE  
 FRANCIS JOSEPH BRINE  
 RALPH JAMES M. BULLOWA, A.B., A.M.  
 MELVILLE HENRY CANE, A.B.  
 RUDY COLE  
 CHARLES LACY CRAIG  
 LIONEL DARLINGTON, B.S., A.M.  
 LEE PARSONS DAVIS  
 EDGAR ACKERMAN DE YOE  
 JOHN PHILIP DIPPEN  
 JOHN BERNARD DOYLE, A.B.  
 WILLIAM BERNARD DRESSLER, A.B.  
 HERMAN DUDEN, JR., A.B.  
 ISIDORE EDELSTEIN

BERNARD M. L. ERNST, A.B.  
 JOSEPH HENRY ESSER, A.B.  
 ORVILLE DEVERE ESTEE, A.B.  
 JOSEPH DIEHL FACKENTHAL, A.B., A.M.  
 LEE FASSETT  
 ALBERT FORSCH, A.B.  
 ALFRED FRANKENTHALER, A.B.  
 ALBERT MARX FRIEDENBERG, B.S.  
 HUGH CORNELIUS GEARIN  
 HENRY STARR GIDDINGS, A.B., A.M.  
 GARRARD GLENN, A.B.  
 HARRY NORMAN GOTTLIEB, A.B.  
 CHARLES TILFORD GREEN  
 ARNOLD GROSS  
 STETSON PRATT HARDENBERGH, A.B.  
 JOHN JOSEPH HARE, B.L.  
 JULIAN COLLIER HARRISON, A.B.  
 CHARLES PHILLIPS HATCHER  
 JAMES ARD HAUGHWOUT, A.B.  
 GEORGE HOWARD ITTLEMAN  
 JEROME CARLTON JACKSON, B.S.

JOHN GILLESPIE JACKSON, A.B.  
 TRISTAM BURGESS JOHNSON  
 GEORGE BECKWITH KEELER, A.B., A.M.  
 RALPH ANTHONY KENNAN  
 JAMES RINTOUL KNAPP, A.B.  
 WILLIAM KINNEY KOERNER  
 ACHILLES HERRMAN KOHN, A.B.  
 WALTER THOMAS KOHN, A.B., A.M.  
 JACOB JEROME KRAMER  
 LEON LAUTERSTEIN  
 LUKE LEA, A.B., A.M.  
 OVERTON LEA, Jr., A.B.  
 LEO LESINSKY, A.B.  
 ROBERT PERCY LEVIS, A.B.  
 SAMUEL SAWTER LEVY, A.B., A.M.  
 EVERSON HOWARD LEWIS, A.B.  
 NORVIN RUDOLF LINDHEIM, A.B.  
 FREDERIC IRVING LOCKMAN, A.B.  
 HOLLISTER LOGAN, A.B.  
 OSCAR LOWENSTEIN, A.B., A.M.  
 ROBERT HALL MCCORMICK, Jr., A.B.  
 JAMES CALLANAN MADIGAN, A.B., A.M.  
 ROBERT MCCURDY MARSH, A.B., A.M.  
 HENRY LEWIS MARTIN, Jr., A.B.  
 FRED MELLOR  
 HENRY CARL MERSEREAU  
 ARNOLD MICHAELIS, A.B.  
 HENRY COOK MILLER, A.B.  
 JOHN NORRIS MILLER, A.B.  
 RUTGER BLEECKER MILLER, A.B.  
 GEORGE HENRY MITCHELL, A.B.  
 HENRY LEO MOSES, A.B.  
 JOHN ROBERT MOULTHROP, B.L.  
 STEPHEN PAYN NASH, A.B.  
 ALGERON ISAACS NOVA  
 THOMAS EDWARD O'BRIEN, A.B., A.M.  
 FRANK SMITH O'NEIL, A.B.

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CHARLES JONES OGDEN, A.B.  
 ROLAND SWIFT PALMER, A.B.  
 GEOFFREY PARSONS, A.B.  
 ARTHUR COXE PATTERSON, A.B.  
 EDMUND DE WITT PATTERSON, A.B.  
 WILLIAM SOPER PETTIT  
 JOHN GRANT PHEIL, A.B., A.M.  
 PHILIP BERNARD PHILIPP, A.B.  
 HARRY WALTON PITKIN, A.B.  
 CHARLES LECOUNT PULLIAM, A.B.  
 EDWARD JOHN REDINGTON, A.B.  
 GEORGE EBEN RENDELL  
 RALPH ROYALL  
 SAMUEL DURHAM ROYSE, A.B.  
 PETER FRANK RYAN, B.S.  
 WARREN CLIFFORD SEAMAN  
 WARREN AUGUSTUS SHENKOWITZ  
 WOOLSEY ADAMS SHEPARD, A.B.  
 FREDERIC BARNETT SHOAF, Ph.B.  
 SAMUEL DAVID SHWITZER  
 SOLOMON EDMUND SLADKUS  
 JAMES RENWICK SLOANE, A.B.  
 EDWIN MARTIN SPENCER  
 HENRY AUSTIN STICKNEY, A.B.  
 JOHN FOSTER SYMES, Ph.B.  
 EDWARD HUBBERT TATUM, A.B.  
 CLARENCE LOT THOMAS, A.B.  
 KARL MAX VETSBURG  
 ROYALL CHARLES VICTOR, A.B., A.M.  
 HARDIE BARR WALMSLEY  
 THEODORE HACKETT WARD  
 ALOYSIUS JOSEPH WELCH, A.B.  
 WALTER FREDERICK WELCH, A.B.  
 ERNEST EDWARD WHEELER, A.B.  
 PLINY WILSON WILLIAMSON, A.B.  
 HENRY MORRIS WISE, A.B.

### Doctor of Medicine

SAMUEL ABEL  
 PAUL ALLEN ADAMS, A.B.  
 DAVID GORDON ALLEN  
 WARREN BEECHER ANDREWS  
 FRED REUEL BAKER, A.B.  
 LEWIS BAMA  
 HARRY BARNES  
 WILLIAM HENRY BEATTIE, A.B.  
 ERICH CARL ADOLPH BECK  
 GEORGE HENRY BENTZ  
 MARK BLOCK  
 DAVID MERWIN BLOOM  
 LEONARD BLUMGART  
 MILTON BODENHEIMER, B.S.  
 JOHN HARVEY BORDEN, A.B.  
 JOACHIM BRENNGLASS, Ph.G.  
 ABRAHAM BRILL, Ph.B.  
 ALFRED JEROME BROWN, A.B.  
 FRANK EDWIN BROWN

HARRY GREENWOOD BUGBEE  
 JESSE GODFREY MORITZ BULLOWA, A.B.  
 CARL GOODWIN BURDICK  
 MORTIMER GILBERT BURFORD  
 JAMES RUTHERFORD CANNON  
 GUSTAV BENZ CAPITO, A.B.  
 ARTHUR FREEBORN CHACE, B.S., A.B.  
 THOMAS ARTHUR CLAY  
 GERHARD HUTCHISON COCKS, A.B.  
 FRANK COHEN  
 EDWIN ARTHUR COLTON, A.B.  
 ALBERT EDWARD COOK  
 LEIGHTON RANDOLPH CORNMAN  
 CHARLES BARTLES CORTRIGHT  
 JOHN JOSEPH COSGROVE  
 HENRY CLAY COWLES, Jr. A.B.  
 FRANK HAINES DAVID  
 FRED AUGUSTUS DEAL, M.D.  
 RALPH DE BAUN



JOSEPH LAWRENCE DIAS  
 FRANCIS ELBERT DUBOIS, A.B.  
 ROGER DURHAM, A.B.  
 WILBUR BRUCE ELMORE, A.B.  
 DON AGARD EPLER  
 FRANK ERDWURM, B.S.  
 JAMES PENDLETON ERSKINE, A.B.  
 CHARLES WAGER FAIRCHILD  
 BRYANT SLOAT FASSETT  
 SAMUEL THOMPSON FAUCETT  
 LEW HENRI FINCH  
 FREDERIC ALOYSIUS FINN, A.B.  
 SAMUEL ROBERTSON FOWLER  
 LOUIS FRANKLIN  
 GUSTAV ADOLPH FRIED, A.B.  
 HARRY JACOB FRIEDMAN  
 GEORGE HENRY GAGE  
 WILLIAM VAN PELT GARRETSON  
 CHARLES ZEH GARSIDE  
 WILLIAM CREIGHTON GARVIN  
 FRED GOLDFRANK, A.B.  
 GEORGE CLIFFORD GOULD  
 WARD SLOSSON GREGORY, Ph.B.  
 JOSEPH GREIF  
 HERMAN GROSS  
 FRANCIS DANIEL GULLIVER  
 WILLIAM JOHN HABER, Ph.G.  
 CHARLES HENRY HALL  
 SAMUEL WARREN HAMILTON, A.B.  
 GEORGE PATRICK HARRAN  
 ARTHUR PERRY HASKING  
 EVERETT MERL HAWKS, A.B.  
 ROYAL STORRS HAYNES, Ph.B.  
 MAX HAZAY  
 KARL ALFRED HELGESON  
 ALFRED COLLARD HENDERSON, B.S.  
 LOUIS HERLITZKA  
 SPENCER LITTLEFIELD HIGGINS, B.S.  
 HENRY VAN VELSOR HOLCOMB, Ph.D.  
 WALTER HENRY HOLDRIDGE  
 ISRAEL HOROWITZ  
 EARLE PHINEAS HUFF  
 OTTO VON HUFFMAN  
 FREDERICK BROWN HUMPHREYS, Ph.B.  
 JAMES SAMUEL HYDE  
 PETER IRVING, A.B.  
 LEOPOLD JACHES, LL.B.  
 HENRY KIRKE WHITE KELLOGG, B.S.  
 JAMES MANNING KENT, A.B.  
 JOHN DEVEREUX KERNAN, Jr., A.B.  
 LEO KESSEL  
 ISAAC WILLIAM KINGSBURY, A.B.  
 JOSEPH BOLTON KNIPE  
 WILLIAM HUGH WELLINGTON KNIPE, A.B.  
 JOHN RADWAY LE COMTE  
 FRANK LEHMACHER  
 HORACE LOUIS LEITER, A.B.  
 PAUL MARTIN LENNOX

MALCOLM FOSTER LENT  
 ARTHUR JAMES LEONARD  
 WILLIAM WOLFE LESEM, A.B., A.M.  
 JOSEPH GOODMAN LEVY  
 HERMAN LORBER  
 WILLIAM OGDEN LORD  
 FRANK FARRA LYNE, B.L.  
 WILLIAM HENRY MCCASTLINE  
 WILLIAM EZRA MCCOLLOM  
 WILLIAM ALISTAIR BRUCE MACBEAN  
 CONVAS LANE MARKHAM  
 SAMUEL BLACKBURN MARKS, B.S.  
 HERMAN OTTO MOSENTHAL, A.B.  
 WILLIAM GIBBS NASH, A.B.  
 NATHAN WILLIAM NELSON  
 WILLIAM NEUMANN  
 FREDERICK JACOB NEWMAN  
 ALEXANDER NICOLL  
 LEONARD FRANCIS NICOLL  
 MORRIS LEE OGAN  
 CHARLES OSGOOD  
 GEORGE CONRAD OWENS  
 LYNN RANSOM PALMER  
 JAMES MCDAVID PARKINSON  
 DOUGLAS CAMPEBELL PATERSON  
 JAMES ROYDEN PEABODY  
 THEODORE NORMAND PEASE  
 DAVID COWEE PIERPONT  
 HENRY MORTON PIERSON  
 EDWARD RUDOLPH POSNER  
 PHILIP SHERIDAN POTTER, A.B.  
 ROBERT EDWARD POU  
 ALFONSO MANUEL PUENTE, A.B.  
 WILLIAM EDWARD RECKNAGEL  
 ROBERT LINCOLN REID  
 ROBERT FINLEY RINGLAND  
 EMANUEL MARX ROBINSON  
 AARON ROKEACH  
 ISADORE ROSEN  
 MORRIS ROSENBAUM  
 HARRY HAYNES ROWLAND, A.B.  
 LAURANCE PHILLIPS RUNYON, B.S.  
 JOSEPH PATRICK RYAN  
 SEBASTIAN SALADINO  
 OTTO SCHEINA  
 GEORGE AUGUSTUS SCHNEPEL  
 RICHARD JOSEPH SHANNAHAN, A.B.  
 FRED ALBERT SIMMONS, Ph.B.  
 JOSEPH JOHN SINNOTT  
 LEROY JAMES SMITH  
 LOUIS SPANIER  
 ADOLPH STERN, A.B.  
 LOUIS STORK, Jr.  
 GEORGE THOMAS STRODL, A.B.  
 ARCHIBALD WILLIAM TAVES  
 ARTHUR RUSSELL TILTON  
 JAMES HENRY TRAINOR  
 ISIDOR SOLOMON TUNICK

DAVID CUSHMAN TWICHELL, A.B.  
 BENJAMIN SMITH VAN DYKE  
 HARVEY JUDSON VARY, A.B.  
 MAX WEISSMAN, A.B.  
 BRAINERD HUNT WHITBECK, A.B.  
 NEIL MCLEOD WHITTAKER  
 JOSEPH NELSON WICKHAM

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HENRY RUDOLPH WIDMER  
 FREDERIC DARBEY WILLIAMS  
 IRVING DEWEY WILLIAMS, A.B., A.M.  
 JOHN NELSON WILLIAMS, A.B.  
 MORRIS WOLFF  
 JOSEPH WITHAM YOUNG, B.S.  
 HANS ZINSSER, A.B.

### Engineer of Mines

HENRY WEBSTER APLINGTON  
 ERNEST BAMBERGER, A.B.  
 HARRY BREWSTER BARLING  
 JOHN FLETCHER BAUCHELLE  
 ROY NELSON BISHOP  
 GEORGE DODGE CABOT  
 DON GELASIO CAETANI  
 CHARLES GODFREY GUNTHER  
 WILLIAM HAROLD HENDRICKSON

[18]

GEORGE WIEBE KNOBLAUCH, A.B.  
 WILLIAM HERBERT LANDERS  
 WILLIAM RAYMOND MORLEY, C.E.  
 EARL RICHARD PEMBROKE  
 SETH FREEMAN RIGBY, B.S.  
 SILAS FREDERICK SHAW  
 EDMOND NORTON SKINNER, Ph.B.  
 SEWALL TRAUZ  
 MARTIN JACOB UNGRICH

### Civil Engineer

ALBIN HERMANN BEYER, Jr.  
 FRANC AUGUST BUSSE  
 WALTER HOFFMANN FORD  
 CHARLES AUGUSTUS GARCELON, Jr., B.S.  
 LOUIS GOODMAN, B.S.  
 CHARLES ALEXANDER HOLDEN  
 ELWOOD HILL LODER

[14]

WALTER ST. LEGER McDOWELL  
 EDWARD FREDERICK MAISENHOLDER  
 JOHN MICHAEL NICHOLSON, A.B.  
 GLOVER PERIN PROUT  
 EDWARD LAWRENCE SAYERS, A.B.  
 ARTHUR MOSES WOLFF  
 MORITZ WORMSER, A.B.

### Electrical Engineer

ALONZO BRACKETT BRADLEY  
 STANLEY BROWN  
 ALLAN COGGESHALL  
 EDWARD LAYTON DE FOREST  
 SAMUEL HARRISON EVERETT, Jr.  
 PERCY NORRIS GOLDEN  
 FRANK FROMMEL GREVATT  
 PERCY LE ROY GRIFFITH

[17]

RAMSAY CHARLES HOGUET  
 OGDEN WHITTIER LILLARD  
 MONTAGUE PALMER  
 HOWARD RICHARDS, Jr., Ph.B.  
 THOMAS O'CONOR SLOANE, Jr.  
 RODERICK STOVER  
 WILLIAM THEODORE STROMEYER  
 LOUIS STEWART THURSTON

ARTHUR BERNARD WEIL

### Metallurgical Engineer

IRVING LANGMUIR

[2]

L. WEBSTER WICKES

### Mechanical Engineer

JOHN WINFRID AGER  
 MALCOLM CURRY  
 LESTER FRANKLIN DITTENHOEFER  
 JOHN PELHAM FABER  
 EUGENE FRANK  
 LOUIS GEORGE HENES  
 HENRY EDWARD JACOBY, B.S.  
 WILLIAM DETLER KAYSER  
 LEO JOSEPH MATTY

[19]

LECLANCHÉ MOËN  
 STEPHEN JOSEPH PIGOTT  
 CHARLES MILES POND  
 PHILIP COHEN SANGUINETTI  
 JULIAN CHASE SMALLWOOD  
 WALTER JESSE SPIRO, A.B.  
 MASON ALBERT STONE, Jr., A.B.  
 WILLIAM MARSH VAN CISE, A.B.  
 WILLIAM EVERETT VER PLANCK, E.E.

FRANCIS PATRICK WALSH

**Bachelor of Science**

(Course in Chemistry)

HERBERT ABRAHAM	MAURICE LINDEMAN
FREDERICK VAN DYKE CRUSER	CYRIL BERCHMAN McLAUGHLIN, A.B.
CHARLES HENRY DEMPWOLF, Jr.	GAIL MERSEREAU
HENRY FRANK	JOHN FAIRFIELD THOMPSON
HAROLD WOODBURY HAINES	GEORGE NORMAN WILLIAMSON, Jr

[10]

**Bachelor of Science**

(Course in Architecture)

ARTHUR PAUL FREDERICK ADENAW	CLARENCE JAMES LANE
WILLIAM HERMAN BEERS	THOMAS WILLIAM LUDLOW
SAMUEL STANHOPE LABOUISSSE, B.E.	BRUCE SYLVESTER PALLISER
	SHEPHERD STEVENS

[7]

**Bachelor of Science**

(Course in Education)

EFFIE MURRAY ABRAMS	PETER PARLEY GARNER
LUELLA VIRGINIA ALLIS	BLANCHE HIRSCH, B.S.
CHARLES HENRY BAILEY	MARY IRVING HUSTED
ACHSA MARGARET BLUNT	CAROLINE FOOTE LESTER
JEAN ALICE BROADHURST	ELINOR MATILDA McKEIGHAN
ARTHUR HENRY CHAMBERLAIN	GRACE MCKINSTRY
BLANCHE LILLIAN COLE	MARY SMITH MACK
ELIZABETH AVERY COLTON, B.S. and B.L.	EDITH ROBERTS MITCHELL
ANNA MARIA COOLEY	WILLIAMETTA ORTON NASH
MARY CHRISTINE DE BARDELEBEN, A.B.	HARRIET MARIE PLUNKETT
RUTH ELIZABETH DOWLING	MARY VARIAN RIBLET
SAVILLA ALICE ELKUS, A.B.	MARION GARNETT RYLAND, A.M.
EDITH CLAYPOOLE EWING	EVELYN SWAN

JESSICA KNAPP TURNER

[27]

**TEACHERS COLLEGE DIPLOMAS****Doctor's Diploma in Education**

ERNEST NORTON HENDERSON	ERNEST BECKWITH KENT
Ph.B., University of California, 1890;	A.B., Iowa College, 1894; A.M., Col-
A.B., 1893; A.M., 1894.	umbia University, 1901
LOUIS FRANKLIN SNOW	
Ph. B., Brown University, 1887; A.B.,	
Harvard University, 1889; A.M., 1890.	

[3]

**Master's Diploma in Education**

JOHN WILLIAM ADAMS	ARCHIBALD GORDON CRAIG
A.B., Cornell University, 1901; A.M.,	Ph.B., Western University of Penn-
Columbia University, 1902.	sylvania, 1900.
HELEN WINONA BAILEY	MARY EVA CRAMER
A.B., Colorado College, 1896.	Ph.B., Wesleyan University, 1895.
LIBERTA ROSS BROWN	FREDERICK JAMES FOSTER
A.B., Pacific University, 1899.	B.S., College of the City of New York,
BAILEY BARTON BURRITT	1891.
A.B., University of Rochester, 1902.	ALICE MABEL GILLILAND
ARTHUR HENRY CHAMBERLAIN	Ph.B., Cornell University, 1891; State
Cook County Normal School, 1892.	Normal College, Albany, N. Y., 1892

- JOHN WESLEY GOULD  
A.B., Columbia University, 1900.
- SARAH LOUISE HADLEY  
A.B., Wellesley College, 1896.
- EDGAR HALLIDAY  
A.B., Princeton University, 1898;  
Secondary Diploma, Teachers Col-  
lege, 1899; A.M., Columbia Univer-  
sity, 1902.
- THOMAS COOPER HALLIGAN  
B.S., College of the City of New York,  
1891; LL.B., New York University,  
1895.
- CLARENCE CHERRINGTON HENSON  
A.B., Ohio University, 1899; A.M.,  
1901.
- [19]
- ELIJAH JENKS, Jr.  
B.S., College of the City of New York,  
1889.
- ARCHIBALD SMITH KNIGHT  
A.B., Colgate University, 1892; A.M.  
1895.
- BRUCE RYBURN PAYNE  
A.B., Trinity College, Durham, N. C.,  
1896; A.M., 1902.
- STELLA GEORGIANA STREETER  
B.L., Smith College, 1893.
- HENRY WOOLF  
B.S., College of the City of New York,  
1895.

### Bachelor's Diploma in Education

For teaching in secondary schools

- JESSIE ALICE ADDOMS (Latin)
- LUELLA VIRGINIA ALLIS (English)
- MARION ELIZABETH PRUYN BALL (His-  
tory)
- JEAN ALICE BROADHURST (Biology)
- JESSIE LOUISE PRESTON BROWN, A.B.  
(History)
- FLORENCE PALMER CHEESMAN (Latin)
- HELEN LOUISE COHEN (English)
- ELIZABETH AVERY COLTON, B.L. and  
B.S. (English)
- HARRIET MCDOUAL DANIELS (Mathemat-  
ics)
- MARY CHRISTINE DE BARDELEBEN, A.B.  
(History)
- EDITH DURANT, A.B. (English)
- SAVILLA ALICE ELKUS, A.B. (Mathemat-  
ics)
- EDITH CLAYPOOLE EWING (English, His-  
tory)
- HELEN TOPPING FRENCH, A.B. (English)
- LEON NATHAN FUTTER (English, History)
- PETER PARLEY GARNER (English, Mathe-  
matics)
- GERALD GORDON, A.M. (English)
- MARY GROFF (Latin)
- MARION ISABELLE HAMMOND, B.L. (His-  
tory)
- MARY FREDERICKA HARRISON (Mathe-  
matics)
- BLANCHE BLOSSOM HEDGES, A.B. (Physi-  
cal Science)
- BLANCHE HIRSCH, B.S. (Mathematics)
- CLARE MACLELLEN HOWARD (English)
- MARGARET SCOTT JARVIE, A.B. (English)
- HELEN AGNES KANE, A.B. (Latin)
- HELEN LOUISE KING (Latin)
- CAROLINE FOOTE LESTER (English, His-  
tory)
- ELINOR MATILDA McKEIGHAN (English,  
History)
- ETHEL BLANCHARD NEWTON (Mathemat-  
ics)
- MARY ALICE POTTER, Ph.B. (Mathemat-  
ics)
- MARY VARIAN RIBLET (English)
- MARION GARNETT RYLAND, A.M. (Eng-  
lish)
- LAURA RANDOLPH SEGUINE (Latin)
- MADELEINE DAYRELL SKINNER (English)
- JOHN WARNER TAYLOR (English)
- JESSICA KNAPP TURNER (Mathematics)
- ADELE NETTIE WALLACH (Latin)
- ELIZABETH ROE WALTERS (Mathematics)
- CHARLES WINTER WOOD, A.M. (English)
- MARY CALDWELL WOODHULL, A.B. (His-  
tory, Latin)

[40]

### Elementary Schools

- ANNE TOWNSEND BRIDGMAN
- LILLIAN ROBERTS DUFFEY
- HELEN VINCENT FROST
- MELVIN HIX
- IDA ELIZABETH KYDD
- GRACE LOUISE MORRISON
- NINA MAY NASH
- CLARA CHARLOTTE PLUMB
- HARRIET MARIE PLUNKETT
- ELLA HATCH POTTER
- NETTIE PICARD SCHWERIN
- KATHERINE ANNE SILL

[12]



## Kindergartens

ADA COLLINS APGAR  
SARA WELLS BOSTWICK  
ELEANOR LOUISE DARLING  
ELIZABETH JOHNSON FREEBORN  
EDITH GAIL HARRISON  
EUPHEMIA JANET HAYES

[12]

GRACE ELSIE JENKINS  
FANNY LEE MCKINNEY, A.B.  
HENRIETTA GRACE PARSONS  
MEREDITH SMITH  
MAUD WHITLOCK  
ALICE MAY WYANT

## Domestic Art

HONORA AGNES BARRON  
ANNA MARIA COOLBY

[5]

ANNA CHARLOTTE HEDGES  
LOUISE HOCHLEITNER

MARIE C. ROBERTS

## Domestic Science

ELIZA BENTON  
MARY ESTHER BLANFORD  
MARY DAVOREN CHAMBERS  
AMY LOUISE DANIELS  
HELEN MARION DAY  
ALICE WARD HESS, M.S.  
IDA MAE MITCHELL  
ALVENA PETTEE, B.S.

[15]

EUPHEMIA ISABEL RAITT  
MAY THOMAS SANFORD  
BIRDIE EMMA SECREST, B.S.  
ELEANOR ELIZABETH TROWBRIDGE  
SARAH CORNELIA WEEKS  
ALTHEA WHEELER  
HELEN REYNOLDS WILBUR

## Fine Arts

LOUIS JULES ARMAND  
CLARA ELIZABETH ECKHARDT  
SELMA CHARLOTTE ENGELBREKT

[6]

MARY IRVING HUSTED  
HELEN LOVELL  
VIRGINIA THOMPSON

## Manual Training

JAMES EDWIN ADDICOTT  
CHARLES OGDEN ATWATER  
CHARLES HENRY BAILEY  
WILLIAM THOMAS BAWDEN  
WALTER AVERY CLEAVELAND  
FRANCES HAMILTON CONSALUS

[12]

GEORGE LYMAN LEWIS  
MARTHA MARY LOFTUS  
EGBERT EUGENE MACNARY  
FLORENCE MABEL MARSHALL, A.B.  
MARIE HUNTRESS PERLEY  
RAY LLOYD SOUTHWORTH

## Music

EFFIE MURRAY ABRAMS

[3]

ACHSA MARGARET BLUNT  
MARGARET MAUD ZERBE

## MASTER OF LAWS

ERNEST ABRAHAM CARDOZO  
A.B., Columbia University, 1899;  
A.M., 1900; LL.B., 1902.

[1]

## MASTER OF ARTS

EDNA ISABEL ALLYN  
Ph.B., Hiram College, 1882.  
Essay: Evidences of Civilization in  
the Bronze Age.

GERTRUDE ANDREWS  
A.B., Woman's College of Baltimore,  
1901.  
Essay: A Comparative Study of  
"Paradise Regained" and Giles  
Fletcher's "Triumph and Victorie of  
Christ."

HELEN WINONA BAILEY  
A.B., Colorado College, 1896.  
Essay: Syntax of the Genitive and  
Accusative Cases in Two Books of the  
Æneid.  
MARGARET ELIZABETH BALL  
A.B., Mount Holyoke College, 1900.  
Essay: Maria Edgeworth and Susanna  
Rowson; a Comparative Study.

- SAUL JEROME BARON**  
A.B., College of the City of New York, 1901.  
Essay: The Limitations of the Constitution upon the United States Government within newly Acquired Territory.
- GILBERT NEWTON BATCHELDER**  
B.S., Brown University, 1900.  
Essay: Comparison of Methods for the Determination of Mercury.
- CHARLES DYER BATES**  
B.D., Cumberland Presbyterian Theological Seminary, 1897.  
Essay: The Causes of American State Legislation on Gambling.
- CHARLES AUSTIN BEARD**  
Ph.B., DePauw University, 1898.  
Essay: The Present Status of Civil Service Reform in the United States.
- BERNHARD SIDNEY BEHRENS**  
A.B., College of the City of New York, 1902.  
Essay: The Career of Sir Edmund Andros as Governor of New York.
- RUSSELL HEACOCK BELLOWS**  
B.S., Columbia University, 1902.  
Essay: Physical Education in the Secondary Schools of the United States.
- EDGAR JULIUS BERNHEIMER**  
A.B., College of the City of New York, 1902.  
Essay: The Judicial Power under the Constitution.
- S. JOHN BLOCK**  
A.B., Columbia University, 1900.  
Essay: Constitutional Limitations of Municipal Activity.
- JOHN HARVEY BORDEN**  
A.B., Yale University, 1899.  
Essay: Chloroform and Ether as Aesthetics.
- JAMES FINCHER BOYDSTUN**  
B.S., Mississippi Agricultural College, 1890.  
Essay: Heredity as a Factor in Education.
- JESSIE LOUISE PRESTON BROWN**  
A.B., Columbia University 1902.  
Essay: A Bibliography of the Iroquois Indians.
- LIBERTA BROWN**  
A.B., Pacific University, 1899.  
Essay: Genitives and Accusatives in the First and Second Books of Virgil's *Aeneid*.
- NATHAN WHITE BUCKHOUT**  
B.S., Pennsylvania State College, 1899.  
Essay: Dramaturgic Qualities in the Plays of Goldsmith and Sheridan.
- ANNA TERRESSA BURCHARD**  
A.B., Vassar College, 1897.  
Essay: The Treatment of Fractions in the Arithmetics of the Sixteenth Century.
- BAILEY BARTON BURRITT**  
A.B., University of Rochester, 1902.  
Essay: A Comparison of Hegel's and Herbart's Theories of the Mind with Some Educational Implications.
- OLIVER BRONSON CAPEIN**  
A.B., Hobart College, 1902.  
Essay: The Influence of William Godwin on the Romances of Charles Brockden Brown.
- HAROLD STEARNS CAPRON**  
A.B., Brown University, 1900.  
Essay: Witchcraft in Massachusetts: a Study in Concerted Volition.
- ARTHUR FREEBORN CHACE**  
B.S., Earlham College, 1897; A.B. Harvard University, 1899.  
Essay: A Preliminary Study of the Physiological Action of Thorium.
- GALLEN HOWELL CLEVINGER**  
B.S., South Dakota State School of Mines, 1901.  
Essay: The Refining of the Precipitates Obtained by Means of Zinc in the Cyanide Process of Gold and Silver Extraction.
- HAROLD DUNSTAN CLUM**  
A.B., St. Stephen's College, 1901.  
Essay: Stoic Theology and Ethics in Cicero.
- PALMER COBB**  
Ph.B., University of North Carolina, 1901.  
Essay: Goethe's Attitude toward the French Revolution in Letters, Conversation, and Memoirs.
- MARY CULBERTSON COLTER**  
A.B., Allegheny College, 1898.  
Essay: A Comparison of Thomas Gray and Matthew Arnold as Elegiac Poets.
- ANNIE MINTO CORDLEY**  
B.S., Wellesley College, 1887.  
Essay: Child Labor in the United States.
- ARCHIBALD GORDON CRAIG**  
Ph.B., Western University of Pennsylvania, 1900.  
Essay: The Air of School-Rooms.
- ETHEL CRAIGHEAD**  
B.L., Smith College, 1898.  
Essay: The Significance of the Work of Robert Owen.

- MARY EVA CRAMER  
Ph.B., Wesleyan University, 1895.  
Essay: The Influence of Oxford and Cambridge Universities on New England Culture.
- LEONIDAS WAKEFIELD CRAWFORD, Jr.  
A.B., Trinity College (N. C.), 1898.  
Essay: Milton's Religious Life as Revealed in his Works.
- FREDERIC ANSON CUMMINGS  
A.B., Wofford College, 1896; A.M., 1901.  
Essay: English Elegy from 1400-1560.
- RICHARD FRANCIS DEIMEL  
B.S., College of the City of New York, 1902.  
Essay: On the Gravitational Constant.
- JAMES FRANCIS DILWORTH  
A.B., Rutgers College, 1902.  
Essay: The Origin of the German Electoral College.
- HERBERT CLIFFORD DORCAS  
Ph.B., State University of Iowa, 1895.  
Essay: Juan Luis Vives as Educator.
- JOHN BERNARD DOYLE  
A.B., Boston College, 1899.  
Essay: Interstate Commerce Regulation: Its Bearing on the Traffic in Spirituous Liquors.
- ALICE DUFOUR  
Ph.B., Defiance College, 1899.  
Essay: The Grasses of Ohio.
- JOSEPH ELI ERON  
A.B., Columbia University, 1902.  
Essay: Friedrich Martin von Bodenstedt as a Translator of the Russian Poets.
- LOLA MAY EVANS  
A.B., Columbian University, 1902.  
Essay: A Study of the Poetry of Phineas Fletcher and Milton.
- FRANK EDSON FIELD  
A.B., Yale University, 1900.  
Essay: A Sociological Study of Bureau County in the State of Illinois.
- LUCIA HESTER FISH  
A.B., University of California, 1899.  
Essay: Rime and Assonance in Lucretius.
- DANIEL JOHNSON FLEMING  
B.S., Wooster University, 1898.  
Essay: The Vedantism of Sankara, from a Kantian Point of View.
- ANDRÉ CAMILLE FONTAINE  
B.L.P., University of France, 1896.  
Essay: The Dramaturgic Art of Augier.
- CHARLES SAVAGE FORBES  
A.B., Columbia University, 1901.  
Essay: The Line Geometry of the Lines through an Axis.
- FREDERICK JAMES FOSTER  
B.S., College of the City of New York, 1891.  
Essay: Manual Training as a Department of Education.
- HELEN TOPPING FRENCH  
A.B., Oberlin College, 1898.  
Essay: A Study of Mrs. Katherine Philips.
- LOUISE HERMINE FUHLHAGE  
A.B., Washington University, 1901.  
Essay: Hauptmann's "Der arme Heinrich" and its Sources.
- EDWIN FRANKLIN GAYLE  
A.B., Louisiana State University, 1896.  
Essay: The Law of Property of Louisiana and its Relation to the Roman Law.
- FREDERICK BENJAMIN GERNERD  
A.B., Franklin and Marshall College, 1901.  
Essay: Historical Development of the Commerce Clause and its Subsequent Interpretation by the Supreme Court of the United States during the First Fifty Years of its Operation.
- ALICE MABEL GILLILAND  
Ph.B., Cornell University, 1891.  
Essay: The Teaching of Mathematics in English Secondary Schools.
- JOHN LEWIS GILLIN  
Lit.B., Upper Iowa University, 1894; A.B., Iowa College, 1895.  
Essay: The Pennsylvania Dutch Settlement in Orange Township, Black Hawk County, Iowa.
- WILLIAM HENRY GLEYSTEN  
A.B., University of Michigan, 1897.  
Essay: The Holland Settlement in Sioux County, Ia.
- HAROLD CLARKE GODDARD  
A.B., Amherst College, 1900.  
Essay: On Some Causes, mainly Rhythmical, of the Sublimity of "Paradise Lost."
- LOUIS GOODMAN  
B.S., College of the City of New York, 1901.  
Essay: History of Experimental Work in Hydraulics.
- GERALD GORDON  
A.B., Lafayette College, 1895; A.M., 1898.  
Essay: Genetic Periods as Affecting Work in the Grades

- LOUIS GOTTSCHALL  
B.S., Columbia University, 1898.  
Essay: The Theory of Continuous Functions.
- JOHN WESLEY GOULD  
A.B., Columbia University, 1900.  
Essay: The Use of the Dative and Ablative Cases in the First Three Books of Virgil's *Æneid*.
- EDWARD KIDDER GRAHAM  
Ph.B., University of North Carolina, 1898.  
Essay: The English Essay in the Seventeenth Century.
- CLIFFORD GRAY  
E.B., Columbia University, 1902.  
Essay: A Collection of Formulas of Mechanics.
- JAMES GRAY  
A.B., Columbia University, 1901.  
Essay: The Power of the Legislature to Limit the Hours of Labor.
- ADOLPH EUGENE GUTSELL  
B.S., College of the City of New York, 1901.  
Essay: Municipal Autonomy in New York State.
- GEORGE CHRISTIAN OTTO HAAS  
A.B., Columbia University, 1902.  
Essay: The Meters of the Sanskrit Dramas Attributed to Harsha.
- SARAH LOUISE HADLEY  
A.B., Wellesley College, 1896.  
Essay: The History of the Liberal Republican Party.
- THOMAS C. HALLIGAN  
B.S., College of the City of New York, 1890; LL.B., New York University, 1895.  
Essay: Relationship of Capability and Scholarship.
- ANNA ESTHER HARRISON  
A.B., University of Kansas, 1902.  
Essay: The Influence of Milton's Italian Travels upon his Character and Work.
- LOUISE HEMPSTEAD  
Ph.B., Cornell University, 1900.  
Essay: The Fraticelli.
- CLARENCE CHERRINGTON HENSON  
A.B., University of Ohio, 1899; A.M., 1901.  
Essay: Social Aspect of the School
- EDWARD CLARK HOOD  
A.B., Amherst College, 1897.  
Essay: Studies in the Life History of *Amceba Proteus*.
- JAMES ARD HOUGHWOUT  
A.B., Washington and Jefferson College, 1890.  
Essay: Due Process of Law.
- KATHARINE DOBBINS HOWARD  
A.B., Central College, 1901.  
Essay: Montaigne as a Humanist.
- GEORGE FREDERICK HUMMEL  
A.B., Williams College, 1902.  
Essay: A Study of the Realistic Element in Thomas Dekker.
- HENRY ASKEW JACKSON  
B.S., Princeton University, 1890.  
Essay: Studies on the Ostwald Dilution Law.
- ELIJAH JENKS, Jr.  
B.S., College of the City of New York, 1889.  
Essay: The Relation of the Community to the School.
- ADÈLE REMSEN JOHNSON  
A.B., Columbia University, 1901.  
Essay: Womanhood and Women in Chaucer.
- ARTHUR CHARLES KAHN  
B.S., College of the City of New York, 1901.  
Essay: The Dartmouth College Case and its Present Status.
- ARCHIBALD SMITH KNIGHT  
A.B., Colgate University, 1892; A.M., 1895.  
Essay: The Coördination of Public High School and College.
- WILLIAM HUGH WELLINGTON KNIPE  
A.B., College of the City of New York, 1899.  
Essay: The Female Pelvic Diaphragm.
- ABRAHAM KOVARSKY  
B.S., College of the City of New York, 1901.  
Essay: The Growth of the Dramaturgic Art of Gerhart Hauptmann.
- MARY AGNES LAUDER  
A.B., Vassar College, 1901.  
Essay: A Comparison of Dryden's Prolegomena with the Preface to the Fables to Ascertain the Lines of Development toward Clearness of Style.
- GEORGE LEAVENWORTH  
A.B., University of Missouri, 1902.  
Essay: A Contribution to the Geology of Ste. Genevieve and Perry Counties, Missouri.
- ALISON MICHAEL LEDERER  
A.B., Columbia University, 1901.  
Essay: The Dramaturgic Art of Paul Hervieu.
- ALFRED HOMES LEWIS  
A.B., Columbia University, 1902.  
Essay: The Domestic System and Survivals.



**LUDWIG LEWISOHN**

A.B., College of Charleston (S. C.),  
1901; A.M., 1901.

Essay: The Beginnings of English  
Criticism.

**SAMUEL PIERSON LOCKWOOD**

A.B., Columbia University, 1902.

Essay: Victor Hugo as a Dramatist.

**LILLIE DEMING LOSHE**

A.B., Bryn Mawr College, 1899.

Essay: The Supernatural in the Eng-  
lish and Scottish Ballads.

**JANET ALEXANDER MCCOOK**

A.B., Columbia University, 1902.

Essay: The Positive Influence of  
Hume on Kant.

**ROBERT HALL MCCORMICK, Jr.**

A.B., Yale University, 1900.

Essay: The Insular Cases.

**MARY STONE McDOWELL**

A.B., Swarthmore College, 1896.

Essay: Some Traces of the Character  
of the Romans Revealed in their Lan-  
guage and Style.

**LEO McLAUGHLIN**

A.B., St. Francis Xavier College,

1895; LL.B., Columbia University,  
1898.

Essay: The Nature-Poetry of Mat-  
thew Arnold.

**CHARLES OGG MAIN**

A.B., Dalhousie University, 1901.

Essay: The French Canadians.

**ANTONIO MANGANO**

A.B., Brown University, 1899.

Essay: The Italian Colonies of New  
York City.

**LOUIS ADOLPHE MARTIN, Jr.**

Mech. E., Stevens Institute of Tech-  
nology, 1900.

Essay: The Historical Development  
of the Ideas of Weight and Mass.

**WILLIE WATSON MASSEE**

B.L., University of Minnesota, 1901.

Essay: Character Writers of the Sev-  
enteenth Century (John Earle).

**YEIICHI MASUDA**

Equiv. A.B., Semmon Gakko, Tokio  
(Japan), 1900.

Essay: Economic Conception of  
Labor.

**NELSON PRENTISS MEAD**

B.S., College of the City of New York,  
1899.

Essay: The Administrative System  
of the Colony of Connecticut in the  
Seventeenth Century.

**MARY SCHORY MERRITT**

A.B., Ohio Wesleyan University,  
1901.

Essay: The Poetry of Addison.

**ALVENIA BARNETTE MILLER**

Equiv. of A.B. accepted by the Uni-  
versity Council.

Essay: A Critical Estimate of Thomas  
Lovell Beddoes.

**JOHN NORRIS MILLER**

A.B., Princeton University, 1900.

Essay: The Protection of Property  
Rights as Afforded the Individual by  
the Constitution against Infringe-  
ment thereon by the United States  
Government.

**RUTGER BLEECKER MILLER**

A.B., Yale University, 1900.

Essay: The Development in Mean-  
ing of the Term "Contract" from a  
Political Science Standpoint.

**ERNEST EARL MORLAN**

B.S., University of Missouri, 1902.

Essay: Equilibrium in Complex Salt  
Solutions.

**ALLEN HENRY NELSON**

A.B., Middlebury College, 1901.

Essay: The Relation between the  
Specific Inductive Capacity of Di-  
alectrics and the Period of Oscillation  
of Electro-Magnetic Waves Used in  
its Determination.

**FRANCIS REID NORTH**

A.B., Wesleyan University, 1897.

Essay: The Conduct of the Fourth  
Intercolonial War.

**CHARLES JONES OGDEN**

A.B., Columbia University, 1900.

Essay: Rescission or Damages as  
Remedies for Fraud.

**FRANK EARLE PARHAM**

A.B., Wake Forest College, 1895.

Essay: The Influence of John Mar-  
shall on the Supreme Court of the  
United States.

**SAMUEL CHESTER PARKER**

A.B., University of Cincinnati, 1901.

Essay: Rudolf Agricola.

**WILLIAM METCALF PARKIN**

A.B., Leland Stanford, Jr., Univer-  
sity, 1901.

Essay: The Conveyance of Coal by  
Overhead Cable-way.

**BRUCE RYBURN PAYNE**

A.B., Trinity College (N. C.), 1896;

A.M., 1902.

Essay: The Ethical Standard and its  
Educational Implications.

**ALICE M. H. PFIZER**

A.B., Adelphi College, 1899.

Essay: Trusts.

**JOHN GRANT PHEIL**

A.B., Baldwin University, 1896.

Essay: Constitutional Guarantee of  
Trial by Jury.

- CHARLES LE COUNT PULLIAM  
A.B., Wabash College, 1887.  
Essay: Property Right in Public Office.
- EDITH EDWINA RAND  
A.B., Smith College, 1899.  
Essay: The Study of Natural History of Animals in Elementary and Secondary Schools.
- MABEL RAY  
A.B., Waynesburg College, 1902.  
Essay: Apuleius as a Source for Roman Archæology.
- THOMAS HASSET RAY  
B.S., College of the City of New York, 1901.  
Essay: Civil Service Reform in the United States.
- EDNA HARRIET RICHARDS  
B.L., Swarthmore College, 1898.  
Essay: A Study in "Die Verhängnisvolle Gabel."
- CHARLES BURTON ROBBINS  
A.B., University of Nebraska, 1898.  
Essay: The Constitutionality of Trial upon Information in Cases of Capital Crime.
- STELLA VIRGINIA RODERICK  
A.B., Ohio Wesleyan University, 1901; A.M., 1902.  
Essay: The Religious Writings of Francis Quarles.
- WILLIAM HERVY ROOD  
A.B., Yale University, 1899.  
Essay: The Police Power of a State and the Power to Tax.
- HARRY HULL ST. CLAIR, JR.  
A.B., Columbia University, 1900.  
Essay: A Sketch of the Shoshone Language.
- BERNHARD DAVID SAXE  
B.S., College of the City of New York, 1899.  
Essay: The Intellectualists and Voluntarists.
- MARY VIOLA SCHUMAKER  
A.B., National Normal University (O.), 1900.  
Essay: A Curriculum Adapted to the Elementary Department of Berea College.
- ANNIE LEDDELL SEWARD  
A.B., Columbia University, 1902.  
Essay: Trade and Technical Schools in New York City.
- CHARLES FRANKLIN SHAW  
A.B., Harvard University, 1901.  
Essay: A Comparative Study of the Social Features of the Early Christian Communities and of the Modern Society of Friends.
- ROSELLE LATHROP SHIELDS (Mrs.)  
A.B., Columbia University, 1898.  
Essay: The Development of 'απερη in Plato.
- FREDERIC BARNETT SHOAF  
Ph.B., University of Michigan, 1900.  
Essay: Property among the North American Indians.
- ROBERT PELTON SIBLEY  
A.B., Amherst College, 1900.  
Essay: The Mystical Philosophy of Sir Thomas Browne.
- ALMERON WARREN SMITH  
B.L., University of Michigan, 1894.  
Essay: Local Self-Government in the Town of East Hampton, Long Island, during the Seventeenth Century.
- HENRY KIRKLAND SMITH  
A.B., Columbia University, 1902.  
Essay: The Mohawk Valley: A Sociological Study.
- HAROLD SOMERS  
A.B., Brooklyn Polytechnic Institute, 1902.  
Essay: Rabelais as a Humanist.
- AGATHA JEAN SONNA  
A.B., Wellesley College, 1899.  
Essay: Divided Usage in English Accentuation.
- HENRY CAPEN STAUNTON  
A.B., Columbia University, 1899.  
Essay: Anomalous Visual Imagery.
- STELLA GEORGIANA STREETER  
B.L., Smith College, 1898.  
Essay: The Development of the Teaching of Plant Physiology in the Secondary Schools of the United States.
- EDWARD HUBBERT TATUM  
A.B., Yale University, 1900.  
Essay: The New York Law of Mandamus.
- EUGENE TAVENNER  
A.B., Columbia University, 1901.  
Essay: Inscriptional Evidence of the Jews at Rome.
- HELEN LOUISE THOMAS  
A.B., Boston University, 1890.  
Essay: The Duchess of Newcastle and her Works.
- WILLYS EVERMAN THOMAS  
A.B., Ohio Wesleyan University, 1897.  
Essay: The Personality of Sir Henry Wotton as Displayed in his Works.
- RAY WALTER THOMPSON  
A.B., Leland Stanford, Jr., University, 1901.  
Essay: Causes of the High Divorce Rate in Cities.

- WESLEY DEE THOMPSON  
A.B., Cumberland University, 1897;  
B.D., 1900.  
Essay: The Treaty of Washington  
and the Alabama Claims.
- EVERETT LYNN THORNDIKE  
A.B., Wesleyan University, 1902.  
Essay: The Study of Magic in Medi-  
eval Universities.
- SUSAN SAYRE TITSWORTH  
A.B., Smith College, 1897.  
Essay: John Huss at the Council of  
Constance.
- PAYSON JACKSON TREAT  
A.B., Wesleyan University, 1900.  
Essay: The Maryland Revolution of  
1680.
- LOUISE MATILDA TRIMBLE  
A.B., Columbia University, 1902.  
Essay: A Study of the Works of  
Edgar Allan Poe for the Secondary  
Schools.
- [147]
- RUFUS ADAIR VANCE  
A.B., Missouri Valley College, 1893;  
LL.B., New York Law School, 1902.  
Essay: Extradition.
- ALICE MARION WAUGH  
A.B., Columbia University, 1902.  
Essay: Coleridge's Style and his  
Theories as to English Usage.
- MARY CALDWELL WOODHULL  
A.B., Columbia University, 1900.  
Essay: Harris's Doctrine of the Self.
- HENRY WOOLF  
B.S., College of the City of New York,  
1895.  
Essay: Education of Destitute and  
Orphan Children in the Institutions  
of the United States.
- MORITZ WORMSER  
A.B., Columbia University, 1900.  
Essay: History of the Alleged Proofs  
of the "Parallelogram of Forces."
- HANS ZINSSER  
A.B., Columbia University, 1899.  
Essay: Notes on the Myology of the  
Woodchuck.

## DOCTOR OF PHILOSOPHY

- JOSEPH HERSHEY BAIR  
Ph.B., University of Michigan, 1900;  
A.M., 1901.  
Dissertation: The Practice-Curve: A  
Study in the Formation of Habits.
- ALLAN PERLEY BALL  
A.B., Amherst College, 1892; A.M.,  
1895.  
Dissertation: The Satire of Seneca  
on the Apotheosis of Claudius, Com-  
monly called the *'Αποκο λοκύντωσις*.
- RUDOLPH MICHAEL BINDER  
A.B., Harvard University, 1893;  
B.D., University of Chicago, 1897.  
Dissertation: Feeling as the Principle  
of Individuation and Socialization.
- MYRICK NATHANIEL BOLLES  
B.S., South Dakota State Agricul-  
tural College, 1898.  
Dissertation: The Concentration of  
Gold and Silver in Iron Bottoms Re-  
duced from Highly Ferruginous Cop-  
per Mattes.
- WILHELM ALFRED BRAUN  
A.B., Toronto University, 1895.  
Dissertation: Types of Weltschmerz.
- WILLIAM CAMPBELL  
B.S., Royal School of Mines (Lon-  
don), 1898.  
Dissertation: The Microscopical Ex-  
amination of the Alloys of Copper  
and Tin.
- LEWIS NATHANIEL CHASE  
A.B., Columbia University, 1895;  
A.M., 1898.  
Dissertation: The English Heroic  
Play.
- HORACE MANN CONAWAY  
A.B., Ohio University, 1892; A.M.,  
1893.  
Dissertation: The Origin of the First  
French Republic.
- CHARLES WILLIAM DICKSON  
A.M., Queen's University, 1900.  
Dissertation: The Ore Deposits of  
Sudbury, Ontario.
- JOHN ERSKINE  
A.B., Columbia University, 1900;  
A.M., 1901.  
Dissertation: A Study of the Eliza-  
bethan Lyric.
- GEORGE IRVING FINLAY  
A.B., Harvard University, 1898.  
Dissertation: The Nephelite-Syenite  
and Associated Dikes in the San  
Carlos Mountains, Tamaulipas, Mex-  
ico.
- GEORGE LIVINGSTONE HAMILTON  
A.B., Harvard University, 1895;  
A.M., 1897.  
Dissertation: The Indebtedness of  
Chaucer's "Troilus and Criseyde",  
to Guido delle Colonne's "Historia  
Trojana."
- JOHN SMITH HARRISON  
A.B., Columbia University, 1899;  
A.M., 1900.  
Dissertation: Platonism in English  
Poetry of the Sixteenth and Seven-  
teenth Centuries.

## PHILIP BOVIER HAWK

B.S., Wesleyan University, 1898;  
M.S., Yale University, 1902.  
Dissertation: Influence of Hemorrhage upon Metabolism.

## ERNEST NORTON HENDERSON

Ph.B., University of California, 1890;  
A.B., 1893; A.M., 1894.  
Dissertation: A Study of Memory for Connected Trains of Thought.

## ALVIN SAUNDERS JOHNSON

A.B., Nebraska University, 1897;  
A.M., 1898.  
Dissertation: Rent in Modern Economic Theory.

## DOUGLAS WILSON JOHNSON

B.S., University of New Mexico, 1901.  
Dissertation: The Geology of the Cerrillos Hills, New Mexico.

## ERNEST BECKWITH KENT

A.B., Iowa College, 1894; A.M., Columbia University, 1901.  
Dissertation: Constructive Work in Elementary Education.

## JOSEPH EDWARD KIRKWOOD

A.B., Pacific University, 1898; A.M., Princeton University, 1902.  
Dissertation: The Comparative Embryology of the Cucurbitaceæ.

## HORATIO SHEAFE KRANS

A.B., Columbia University, 1894;  
A.M. 1897.  
Dissertation: Irish Life in Irish Fiction.

## RICHARD SWANN LULL

B.S., Rutgers College, 1893; M.S., 1896.  
Dissertation: Footprints of the Jura-Trias of North America, with a Preliminary Revision of the Eastern Vertebrate Fauna of the Period.

## GRACE HARRIET MACURDY

A.B., Radcliffe College, 1888.  
Dissertation: The Chronology of the Extant Plays of Euripides.

## JAMES FRANKLIN MESSENGER

A.B., University of Kansas, 1895;  
A.M., Harvard University, 1901.  
Dissertation: The Perception of Number.

## JAMES BURT MINER

B.S., University of Minnesota, 1897;  
LL.B., 1899; M.S., 1901.  
Dissertation: Rhythms: Motor, Visual, and Applied.

## IDA HELEN OGILVIE

A.B., Bryn Mawr College, 1900.  
Dissertation: The Geology of the Paradox Lake Quadrangle, New York.

## SAMUEL PETER ORTH

B.S., Oberlin College, 1896.  
Dissertation: Centralization of Administration in Ohio.

## GEORGE BRAXTON PEGRAM

A.B., Trinity College (N. C.), 1895.  
Dissertation: Secondary Radioactivity in the Electrolysis of Thorium Solutions.

## WILLIAM A. RAWLES

A.B., Indiana University, 1884;  
A.M. 1895.  
Dissertation: Centralizing Tendencies in the Administration of Indiana.

## HERMAN SIMON RIEDERER

B.S., College of the City of New York, 1898; A.M., Columbia University, 1901.  
Dissertation: The Quantitative Determination of Bismuth as Molybdate.

## JACOB BERNARD SEGALL

B.S., University of Jassy (Roumania), 1884; B.L., 1884.  
Dissertation: Corneille and the Spanish Drama.

## ROBERT PERRY SHEPHERD

A.B., Hiram College, 1895; A.M. 1896.  
Dissertation: Turgot and the Six Edicts.

## JAMES THOMSON SHOTWELL

A.B., Toronto University, 1898.  
Dissertation: The History of the Eucharist.

## WILLIAM ROY SMITH

A.B., University of Texas, 1897;  
A.M., 1898.  
Dissertation: South Carolina: A Royal Province.

## LOUIS FRANKLIN SNOW

Ph.B., Brown University, 1887; A.B., Harvard University, 1889; A.M., 1890.  
Dissertation: The College Curriculum in the United States.

## EARL EVELYN SPERRY

Ph.B., Syracuse University, 1898.  
Dissertation: History of Clerical Celibacy in the Christian Church.

## ALFRED STOECKIUS

A.M., Columbia University, 1900.  
Dissertation: Naturalism and its Application to the Drama, with Special Reference to Gerhart Hauptmann.

## DAVID YANCEY THOMAS

A.B., Emory College, 1894; A.M., Vanderbilt University, 1898.  
Dissertation: Military Government in the United States Prior to the Civil War.



HARRY BEAL TORREY

B.S., University of California, 1895;

M.S., 1898.

Dissertation: On Regeneration in  
Hydroids.

STEPHEN FRANCIS WESTON

A.B., Antioch College, 1879; A.M.

1885.

Dissertation: Justice in Taxation.

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## HONORARY DEGREES

## Master of Arts

JOHN BRITTON CAULDWELL, C.E.

## Doctor of Letters

MOSES TAYLOR PYNE, A.M., LL.B.

*Trustee of Princeton University*

## Doctor of Science

PETER COOPER HEWITT

JOSEPH JOHN THOMSON, M.A., F.R.S.

*Cavendish Professor of Experimental Physics in the University of Cambridge*

## Doctor of Sacred Theology

GEORGE ANGIER GORDON, D.D.

*Minister of Old South Church, Boston, Mass.*

## Doctor of Laws

ANDREW SLOAN DRAPER, LL.D.

*President of the University of Illinois**(Conferred in camera, February 2, 1903)*

ALEXANDER CROMBIE HUMPHREYS, M.E., Sc.D.

*President of Stevens Institute of Technology*

BENJAMIN BARKER ODELL, Jr.

*Governor of the State of New York*

JULES JUSSELAND, Litt.D.

*Ambassador of France*

## Fellows and Scholars

### University Fellows

- LEON OLIVER BEATTY, New York City.....*Chemistry*  
A.B., University of Kentucky, 1899; M.S., Kentucky State College, 1900; Columbia University, Scholar in Chemistry, 1902-03.
- FREDERIC COLUMBUS BLAKE, Leadville, Col.....*Physics*  
Ph.B., University of Colorado, 1901.
- MARIO EMILIO COSENZA, New York City.....*Latin*  
A.B., College of the City of New York, 1901; Columbia University, graduate student, 1901-03.
- WILLIAM HARPER DAVIS, New York City.....*Psychology*  
A.B., Princeton University, 1900; Columbia University, graduate student, 1900-03.
- ALLEN BARBER EATON, Beloit, Wis.....*Sociology*  
Ph.B., Beloit College, 1899; M.A., Chicago University, 1902; Columbia University, Scholar in Sociology, 1902-03.
- HARRY M. GAGE, Huron, S. D.....*Philosophy*  
A.B., University of Wooster, 1900.
- HAROLD CLARKE GODDARD, Worcester, Mass.....*English*  
A.B., Amherst College, 1900.
- WILLIAM FREDERIC HAUHART, Baldwin, Mo.....*German*  
Ph.B., Central Wesleyan College, 1900; A.B., University of Missouri, 1901; A.M., 1902.
- PAUL LELAND HAWORTH, Marquette, Mich.....*American History*  
A.B., Indiana University, 1899; A.M., 1901; Columbia University, Scholar in History, 1902-03.
- WILLIAM TITUS HORNE, University Place, Neb.....*Botany*  
B.Sc., University of Nebraska, 1898.
- STEPHEN HERBERT LANGDON, New York City.....*Semitics*  
B.D., Union Theological Seminary, 1893; A.B., University of Michigan, 1898; A.M., 1899; Columbia University, graduate student, 1901-02.
- ROLPH BARLOW PAGE, Toronto Junction, Ontario, Can.....*European History*  
A.B., University of Toronto, 1897; A.M., 1901; Columbia University, Scholar in History, 1902-03.
- J. HOMER REED, Minneapolis, Minn.....*American History*  
A.B., University of Minnesota, 1902; Columbia University, graduate student, 1902-03.
- BERT RUSSELL, Minneapolis, Minn.....*Physiological Chemistry*  
A.B., University of Minnesota, 1902.
- CHARLES EMIL STANGELAND, Minneapolis, Minn.....*Economics*  
A.B., Augsburg Theological Seminary, 1898; A.M., University of Minnesota, 1901.
- IRA A. WILLIAMS, Ames, Iowa.....*Geology*  
B.Sc., Iowa State College, 1898; M.Sc., 1902.
- DAVID LAFOREST WING, Boston, Mass.....*Statistics*  
S.B., Massachusetts Institute of Technology, 1898.
- NAOHIDÉ YATSU, Japan.....*Zoology*  
Rigakushi, Tokio Imperial University, 1900.

## Honorary Fellows

- MICHAEL MARKS DAVIS, Jr., New York City.....*Sociology*  
 A.B., Columbia University, 1900; Fellow in Sociology, 1902-03.  
 WILLIAM KENNETH BOYD, New York City.....*European History*  
 A.B., Trinity College, N. C., 1897; A.M., 1898; Columbia University, Scholar in  
 History, 1900-01; Fellow, 1902-03.

## International Fellow for Study in France

- FREDERICK CURRY OSTRANDER, Cornwall, N. Y.  
 A.B., Wesleyan University, 1893; Columbia University, Fellow in Romance Lan-  
 guages, 1902-03.

## Barnard Fellow

WILLIAM CAMPBELL, Ph.D.

## Henry Disler Fellow

WALTER WHIPPLE ARNOLD, A.M.

## John Tyndall Fellow

FRANK LEO TUFTS, Ph.D.

## Mosenthal Fellow

FRANK EDWIN WARD

## Schiff Fellow

PRESERVED SMITH, A.M.

## Proudfit Fellow in Letters

STANLEY KIDDER WILSON, A.M.

## McKim Fellows

FRANCIS AUGUSTUS NELSON, B.S.  
 GEORGE WASHINGTON JACOBY, B.S.

## Class of 1870 Fellow

LEWIS BUFFET CARLL, A.M.

## Alumni Association Fellows

(College of Physicians and Surgeons)

AUGUSTUS B. WADSWORTH, M.D., *Pathology*  
 EDWARD ANTHONY SPITZKA, M.D., *Anatomy*  
 EDWARD RUDOLPH POSNER, M.D., *Pathology*

## President's University Scholars

- CHARLES THOMAS BRUES, New York City.....*Zoölogy*  
 B.S., University of Texas, 1901; M.S., 1902; Columbia University, graduate  
 student, 1902-03.  
 JULES CATHERINET, Bonnecourt, par Neuilly l'Eveque, Haute Marne, France. *Geology*  
 Licencié-ès-sciences, Sorbonne, 1900.  
 GEORGE CHRISTIAN OTTO HAAS, New York City.....*Indo-Iranian*  
 A.B., Columbia University, 1902; Scholar in Indo-Iranian, 1902-03.  
 JOSEPH GREGOIRE DE ROULHAC HAMILTON, Hillsboro, N. C. .... *American History*  
 A.M., University of the South, 1900; Columbia University, Scholar in History,  
 1902-03.  
 ARTHUR HUNTINGTON NASON, Augusta, Me.....*English*  
 A.B., Bowdoin College, 1899; graduate student, 1902-03.

## University Scholars

- EUGENE EWALD AGGER, Bond Hill, Ohio.....*Economics*  
A.B., University of Cincinnati, 1901; A.M., 1902; Columbia University, Scholar  
in Economics, 1902-03.
- ALEXANDER OTTO BECHERT, Brooklyn, N. Y.....*German*  
A.B., Columbia University, 1903.
- DINO BIGONGIARI, Brooklyn, N. Y.....*Latin*  
A.B., Columbia University, 1902; Scholar in Latin, 1902-03.
- NORRIS ARTHUR BRISCO, Spokane, Wash.....*Political Economy and Finance*  
A.B., Queen's University, 1898; A.M., 1900.
- CHARLES COLLINS, Kirkwood, Mo.....*Romance Languages*  
A.B., University of Missouri, 1903.
- LEONIDAS WAKEFIELD CRAWFORD, Jr., Greensboro, N. C.....*English Literature*  
A.B., Trinity College, Durham, N. C., 1898; A.M., Columbia University, 1903.
- CHARLES GROVE HAINES, Collegeville, Pa.....*Constitutional Law*  
A.B., Ursinus College, 1903.
- VIVIAN ALLEN CHARLES HENMON, Lindsborg, Kan.....*Psychology*  
A.B., Bethany College, 1895; A.M., 1899.
- LOUIS HUSSAKOF, New York City.....*Zoölogy*  
B.S., College of the City of New York, 1900; Columbia University, graduate  
student, 1902-03.
- HENRY LORENZO JAMES, Racine, Wis.....*Political Science*  
B.L., University of Wisconsin, 1902; LL.M., 1903.
- TOKICHI KAMADA, Imabari, Iyo, Japan.....*Sociology*  
A.B., Missouri Valley College, 1903.
- AUSTIN BAXTER KEEP, New York City.....*American History*  
A.B., Amherst College, 1897; A.M., 1901; Columbia University, Scholar in  
American History, 1902-03.
- NICHOLAS AUGUST KOENIG, New York City.....*Semitic Languages*  
A.B., Columbia University, 1903.
- CHARLES FRANCIS LAWSON, New York City.....*English*  
A.B., Columbia University, 1903.
- HOWARD DANIEL MARSH, Los Angeles, Cal.....*Psychology*  
A.B., Ohio Wesleyan University, 1901; A.M., 1902; A.M., Columbia University  
1903.
- HAROLD CHAFFEE MCCOLLOM, Brooklyn, N. Y.....*Latin*  
A.B., Columbia University, 1903.
- LOUIS G. MICHAEL, Lansing, Mich.....*Mineralogy*  
B.S., Michigan Agricultural College, 1903.
- WILLIAM BRADLEY OTIS, Des Moines, Iowa.....*English Literature*  
A.B., Iowa College, 1901.
- FREDERICK WILLIAM ROE, New York City.....*English*  
A.B., Wesleyan University, 1897.
- ROBERT LIVINGSTON SCHUYLER, New York City.....*American History*  
A.B., Columbia University, 1903.
- GUY EDWARD SNIDER, Des Moines, Iowa.....*Finance*  
B.L., University of Wisconsin, 1901; A.M., 1902; Columbia University, Scholar  
in Economics and Finance, 1902-03.
- HENRY CAPEN STAUNTON, New York City.....*Psychology*  
A.B., Columbia University, 1899; graduate student, 1902-03; B.D., General  
Theological Seminary, 1902.
- CHARLES R. STOCKARD, Washington, Miss.....*Zoölogy*  
B.S., Mississippi Agricultural and Mechanical College, 1899; M.S., 1902.
- EVERETT LYNN THORNDIKE, New York City.....*European History*  
A.B., Wesleyan University, 1902; A.M., Columbia University, 1903.
- CAMILLE AUGUSTE TOUSSAINT, Jersey City, N. J.....*Mathematics*  
A.B., Columbia University, 1903.
- FRANK HOWARD WOLCOTT, Las Vegas, New Mexico.....*Chemistry*  
B.S., University of Colorado, 1901.



## Curtis University Scholars

- MARGARET ELIZABETH BALL, Passaic, N. J.....*English*  
 A.B., Mount Holyoke College, 1900; Columbia University, graduate student,  
 1902-03.
- IDA CARLETON THALLON, Brooklyn, N. Y.....*Classical Archaeology*  
 A.B., Vassar College, 1897; A.M., 1901.
- CHARLOTTE WRIGHT, Cincinnati, Ohio.....*History*  
 A.B., University of Cincinnati, 1901.

## Margaret Fuller Scholar

- CLARE MACLLELEN HOWARD, New York City.....*English*  
 A.B., Columbia University, 1903.

John D. Jones Scholar

LEWIS I. DUBLIN, B.S.

Alonzo Clark Scholar

CHARLES NORRIS, M.D.

## Harsen Scholars

- Fourth Year: HERMAN EICHHORN  
 B.S., College of the City of New York.  
 ERNEST OLIVER JOSEPH EYTINGE
- Third Year: IRVING WILSON VOORHEES  
 B.S., Princeton University.
- Second Year: ATHEL CAMPBELL BURNHAM  
 JOSEPH CASPER  
 B.S., Princeton University.

The following holders of University Scholarships were appointed as proctors at the September entrance examinations of 1903, and the University hereby acknowledges its indebtedness to them for their satisfactory performance of this duty:

CHARLES T. BRUES

LOUIS HUSSAKOF

LOUIS G. MICHAEL

ARTHUR H. NASON

JOHN A. SWENSON <sup>1</sup>

## BARNARD COLLEGE

## Trustees' Competitive Entrance Scholar

AMALIE LOUISE ALTHAUS

## Brooklyn Scholars

MABEL EMMA BROWNE  
 FAITH CHIPPERFIELD  
 SALLIE FAULKNER FLETCHER  
 FLORENCE EDDY HUBBARD  
 EMILIE JOSEPHINE HUTCHINSON  
 ANNA JOSEPHINE KENNEDY  
 DORA RUSSELL NEVINS

## Other Students on Brooklyn Scholarships

HILMA LEERS  
 MILDRED ELSEGOOD MILLER  
 ELSIE SCHACHTEL  
 ELIZABETH IVERSON TOMS  
 EDITH WELLE

<sup>1</sup> Later appointed Assistant in Mathematics.

**Elia Weed Scholar**

LUCY BATES EMBURY

**Veltin School Scholar**

ANNA CAMPBELL REILEY

**Mrs. Donald McLean Scholar**

FANNIE MOULTON McLANE

**Jennie B. Clarkson Scholar**

ALIDA MARGARET VAN SLYKE

**Lucille Pulitzer Scholars**

EDITH BUTTS

LILIAN HELLIN

HELEN LETITIA PALLISER

**Emily James Smith Scholar**

ALICE HASKELL

**Anna E. Barnard Scholar**

SARAH THEODORA CURTIS

**Brearley Scholar**

MARGARET CECILIA BYRNE

**Eliza Taylor Chisholm Memorial Scholar**

MARY GOULD GRAY

**Graham School Scholar**

MABEL DENTON

**Jessie Kaufmann Scholar**

ROSA FRIED

## TEACHERS COLLEGE

**Fellow in Education**

ANTHONY HENRY SUZZALLO.....San Francisco, Cal.  
 Diploma, California State Normal School, 1895; A.B., Leland Stanford, Jr.,  
 University, 1899; A.M., Columbia University, 1902.

**Fellow in Manual Training**

JAMES EDWIN ADDICOTT.....San José, Cal.  
 Diploma, State Normal School, San José, Cal., 1890; Diploma, Manual Training  
 School, St. Louis, Mo., 1891.

**Special Graduate Scholars**

JESSE HARLIAMAN COURSAULT.....Columbus, O.  
 A.B., Ohio State University, 1893; A.M., 1898; A.M., Harvard University, 1900.  
 WALTER FENNO DEARBORN.....Middletown, Conn.  
 A.B., Wesleyan University, 1900; A.M., 1903.

LAMBERT LINCOLN JACKSON.....Brockport, N. Y.  
 Diploma, State Normal School, Cortland, N. Y., 1891; Pd.B., Michigan State  
 Normal College, 1893; A.B., University of Michigan, 1897; A.M., 1899.

BRUCE RYBURN PAYNE.....Durham, N. C.  
 A.B., Trinity College, 1896; A.M., 1902; Teachers College, graduate student,  
 1902-03.

**Regular Graduate Scholars**

ANNA MAY CLARK.....Framingham, Mass.  
 Diploma, State Normal School, New Britain, Conn., 1895; Ph.B., University of  
 Vermont, 1898.

- GEORGE FORCE LONGACRE.....Royersford, Pa.  
A.B., Ursinus College, 1896; Teachers College, graduate student, 1902-03.
- GEORGE EDWARD MARKER.....Urbana, Ill.  
Diploma, Illinois State Normal College, 1895; A. B., University of Illinois, 1903.
- IDA CATHERINE MESSER.....Cleveland, O.  
L.B., Western Reserve University, 1900; A.M., 1902.
- ALPHEUS WILBERFORCE MOON.....Monroeville, N. J.  
A.B., Indiana University, 1895; Teachers College, graduate student, 1902-03.
- FLETCHER HARPER SWIFT.....New York City  
A.B., Dartmouth College, 1898; B.D., Union Theological Seminary, 1903.
- FRED CAMPBELL WHITCOMB.....Bluffton, Ind.  
B.S., Franklin College, 1900.

#### Tileston Scholar

- WILLYSTINE GOODSSELL.....Naugatuck, Conn.  
Diploma, Welch Training School, New Haven, 1890; Teachers College, student,  
1902-03.

#### Shackelford Scholar

- MABEL EDNA BROWN.....Campville, Conn.  
Teachers College, student, 1902-03.

#### Pierrepont Scholar

- FRANK ROBERT CAUCH.....Berkeley, Cal.  
Diploma, State Normal School, San José, Cal., 1885; Teachers College, student  
1902-03.

#### Pond Scholar

- TULLA CAROLINE ODENCRANTZ.....New York City  
Teachers College, student, 1901-03.

#### Earl Scholar

- GEORGE DRAYTON STRAYER.....Baltimore, Md.  
Bucknell University, student, 1896-97; A.B., Johns Hopkins University, 1903.

#### Charlotte Louisa Williams Scholars

- EVA ELIZA BRIGGS.....Potsdam, N. Y.  
Diploma, State Normal School, Potsdam, N. Y., 1893; Teachers College, student,  
1902-03.
- ELEANOR SELDON TUCKER.....Norfolk, Va.  
Diploma, Leache-Wood Seminary, 1893.

#### Hoadley Scholar

- CLIFF WINFIELD STONE.....Oshkosh, Wis.  
Diploma, State Normal School, Oshkosh, Wis., 1890; University of Chicago,  
student, 1900-01; Indianapolis, University, student, 1901-03.

#### Bryson Scholars

- LANA BISHOP.....Grand Rapids, Mich.  
Teachers College, student, 1902-03.
- HOWARD STODDARD HARRIS.....Middletown, N. Y.  
Teachers College, student, 1902-03.

#### Special Scholar in Domestic Science

- ELIZABETH JANE AGNEW.....Yates Centre, Kan.  
Kansas State Agricultural College, B.S., 1900.

#### Special Undergraduate Scholars

- ANNA MANSFIELD CLARK.....Salisbury, Conn.  
Teachers College, student, 1902-03.
- MARY AUGUSTA CLARK.....Bedford, N. Y.  
A.B., Mount Holyoke College, 1903.

- EDNA EARLE HOPE.....Charleston, S. C.  
University of Tennessee, student, 1901-03.
- MARGARET ELLIOT MCKAY.....Wilmington, Del.  
Teachers College, student, 1902-03.
- GERTRUDE HUNTINGTON WARE.....Hartford, Conn.  
Diploma, State Normal School, New Britain, Conn., 1899; Teachers College,  
student, 1902-03.

## Southern Scholars

- CHARLES HYMAN CALHOUN.....Tarrytown, Ga.  
Diploma, Georgia State Normal School, 1902.
- MARY READ COMFORT.....Knoxville, Tenn.  
University of Tennessee, student, 1899-1900; Pennsylvania Academy of Fine  
Arts, student, 1900-03.
- MARY VENABLE COX.....Farmville, Va.  
Diploma, Virginia State Normal School, 1900; Teachers College, student, 1902-  
03.
- ELIZABETH MAUDE HALEY.....Jasper, Ala.  
Teachers College, student, 1902-03.
- BRUCE RYBURN PAYNE.....Durham, N. C.  
A.B., Trinity College, 1896; A.M., 1902; Teachers College, graduate student,  
1902-03.
- OSCEOLA ALVIN THAXTON.....Jackson, Ga.  
A.B., Mercer University, 1901.

## Brown Scholars

- CARRIE J. BARNES.....Tuskegee, Ala.
- SADELLA M. DONALDSON.....Tuskegee, Ala.

(For Statements of Fellowships and Scholarships in Barnard College and Teachers College, see table of contents.)



## Awards of Prizes and Honors, 1903

### COLUMBIA COLLEGE

#### Honors

##### Highest General Honors

###### Class of 1903

NATHANIEL WARING BARNES  
STANLEY MYER ISAACS  
ROBERT LIVINGSTON SCHUYLER  
FREDERIC LYMAN WELLS  
MURRAY HAROLD BASS  
CLINTON GILBERT ABBOTT  
*Alumni Competitive Scholar*

###### Class of 1904

WALTER ABRAHAM JACOBS  
ARTHUR S. GUTMAN  
MEYER JACOBSTEIN

###### Class of 1905

LEONARD FLAGGE OTTEN  
WILLIAM KLABER  
ROBERT LE ROY  
KAUFMAN RICHARD WALLACE  
EDWARD SAPIR  
*Pulitzer Scholar*

###### Class of 1906

MICCO ACHILLES FONTRIER  
WILBUR L. CASWELL  
*Brooklyn Scholar*

##### General Honors

###### Class of 1903

CHARLES FRANCIS LAWSON  
*Brooklyn Scholar*  
LEONHARD FELIX FULD  
*Pulitzer Scholar*  
HERBERT DAVID MANDELBAUM  
HAROLD CHAFFEE MCCOLLOM  
*Brooklyn Scholar*  
LAWRASON RIGGS, JR.  
ARTHUR FREDERICK EGNER  
GERALD STUART O'LOUGHLIN  
PIERCE PHILIP FERRIS  
WALTER FRANK  
LEONARD MICHAEL WALLSTEIN  
MARTIN CHARLES ANSORGE  
ALEXANDER OTTO BECHERT  
*Hewitt Scholar*  
JOHN WARNER TAYLOR  
*Morgan Scholar*  
CAMILLE AUGUSTUS TOUSSAINT  
*Sloan Scholar*  
SAMUEL ABRAHAM TELSEY  
*Brooklyn Scholar*

ALBERT DAVIS  
CHARLES DOSWELL TOMKIES  
NICHOLAS AUGUST KOENIG  
*Cutting Scholar*  
WILLIAM FYFE TURNBULL  
*Morgan Scholar*  
JOHN JAMES BAKERMAN  
FREDERICK JOSEPH AGATE  
COLIN GARFIELD FINK  
RUDOLPH LUDWIG VON BERNUTH  
BERNARD HERMAN RIDDER  
WALTER SCOTT SPIEGELBERG  
BARENT LEFFERTS  
LOUIS S. ODELL  
*Clark Scholar*  
HOWARD ALLAN KEELER  
JOHN WHITING CROWELL  
GEORGE FREDERICK BAMBACH  
*Society for Promoting Religion and Learning Scholar*  
WILLIAM FORREST HILLS  
RALPH HENRY WADDELL  
JOSEPH S. BIKLÉ  
HARRY WYLBUR STANLEY

**Class of 1904**

MAURICE EDGAR ROSENWASSER  
 LOUIS BLISS GILLET  
 HOWARD AUGUSTIN BUTLER  
 ABRAHAM MOSES DAVIS  
 CARLTON HUNTLEY HAYES  
*Morgan Scholar*  
 CHANNING RUST TOY  
*Cutting Scholar*  
 OSCAR REMPEL HOUSTON  
*Alumni Competitive Scholar*  
 MAURICE JONES MUNKER  
 JAMES MYERS  
*Vanderbilt Scholar*  
 LEONARD GORDON McANENY  
 WILLIAM SIDNEY BRYANT, JR.  
 JANVILLE WHITTON LINDSAY  
 CLINTON HAMLIN BLAKE, JR.  
 JOHN REDWOOD FISHER  
 IRVING OTTENBERG  
 JAMES LATIMER ROBINSON  
*Morgan Scholar*  
 HAROLD BENJAMIN ELGAR  
 WALTER SANLEY GOLDFRANK  
 EDWIN PATRICK KILROE  
 CARL PONTIUS CARLSSON  
*Society for Promoting Religion and Learning Scholar*  
 GRANT KNAUFF  
 WILLIAM ANTHONY AERY  
 FRAZER WALKER GAY  
 HERBERT HENRY HARRIS  
 JAXON KNOX  
 M. REUBEN LANGE  
 MAXWELL FRANCIS LAWTON  
*Brooklyn Scholar*  
 PHILIP MOELLER  
 WALTER GUSTAV CARNES OTTO  
 DONALD CLIFFORD BRACE  
*Parish Scholar*  
 EDGAR DAVIDSON OPPENHEIMER  
 FAREL LOUIS JOUARD  
 RANDOLPH COCLOUGH WILSON  
 PAUL GERHARD GRAVENHORST  
*Brooklyn Scholar*  
 EMORY HILL  
*Faculty Scholar*  
 ALFRED HARCOURT  
*Class of '48 Scholar*  
 RUDOLPH RUBINO LOENING  
 UDO JULIUS WILE  
 HENRY DAGGETT BULKLEY  
 BAYARD BLACKWELL RODMAN  
*Vanderbilt Scholar*

**Class of 1905**

JACOB ZEITLIN  
*Pulitzer Scholar*

SAMUEL LLOYD BARRICK  
*Faculty Scholar*  
 GORDON SAUL PHILIP KLEEBOEG  
 HAROLD HARPER  
*Pulitzer Scholar*  
 HARRY ANSPACHER  
 JOSEPH TOLCHINSKY  
*Brooklyn Scholar*  
 HAROLD WORTHINGTON WEBB  
 WALTER WESLEY MOTT  
 BENJAMIN MARK KAYE  
*Pulitzer Scholar*  
 WALDEMAR HEINRICH GROSZMANN  
 CURTIS LUBLIN  
*Vanderbilt Scholar*  
 HUGH PETERS TREAT  
*Alumni Competitive Scholar*  
 JAMES LAURENCE WALDRON  
*Brooklyn Scholar*  
 GEORGE ZERDIN MEDALIE  
*Pulitzer Scholar*  
 NORMAN MONTEFIORE COHEN  
 BENJAMIN MORRIS LEVY  
*Brooklyn Scholar*  
 WILLIAM STUART MESSER  
*Hewitt Scholar*  
 ARTHUR LIVINGSTON WILLIS  
 GUSTAVUS ADOLPHUS YOUNGER  
*Pulitzer Scholar*  
 LESLIE BREWSTER SMITH  
*Campbell Scholar*  
 STEWARD SLOSSON  
 JOSEPH JULIUS FRANK  
 WALTER L. ROTHSCHILD  
 MONTE LONDON  
 LOUIS BEACH VREELAND  
 JAMES PUTNAM HEATON  
 JOHN ROBBINS HIGBIE

**Class of 1906**

DANIEL V. RAYMOND  
 WALTER SICHEL  
 WILLIAM LEOPOLD ESSEX  
 FLETCHER IRWIN KRAUSS  
*Alumni Association Scholar*  
 BELMONT CORN  
 WILLIAM JOHN MITCHELL  
 WALTER HEILPRIN POLLAK  
 ERNEST HUNTER WRIGHT  
 STANLEY HAROLD STEINER  
*Stewart Scholar*  
 ROBERT ANTONIO FERRARI  
 GILBERT JULIUS HIRSCH  
*Alumni Competitive Scholar*  
 BAYARD BOYESEN  
 HAROLD ALLEN THOMAS  
 JOSHUA LOUIS AMBERG  
 KARL WENDELL KIRCHWEY

CHARLES HANER  
*Pulitzer Scholar*  
 CHARLES ARTHUR STEWART  
 NATHAN NATHAN DICKLER  
*Brooklyn Scholar*  
 JOHN HINMAN EVANS  
 FRANK WILLIAM CHAMBERS  
*Pulitzer Scholar*  
 ROBERT HENRY FOWLER  
 GRANT BURNS  
 WALTER LEO SOLOMON

JULIUS KENDLER  
*Pulitzer Scholar*  
 HENRY WESTON EASTMAN  
*Brooklyn Scholar*  
 ABRAHAM DEIXEL  
 MAX KAHN  
*Pulitzer Scholar*  
 SAMSON FRIED BLOCH  
 AUGUST OTTO EIMER  
 GEORGE WILLIAM PETER  
 FRANK BENEDICT LIPPMANN

### Departmental Honors

#### Final Honors

##### *Romance Languages*

PIERCE PHILIP FERRIS

##### *English*

NATHANIEL WARING BARNES  
 ALBERT DAVIS

##### *German*

ALEXANDER OTTO BECHERT

#### Junior Honors

##### *History*

ABRAHAM MOSES DAVIS  
 CARLTON HUNTLEY HAYES

#### Sophomore Honors

##### *Mathematics*

LESLIE BREWSTER SMITH

##### *English*

JACOB ZEITLIN

##### *German*

JOSEPH TOLCHINSKY

### Competitive Scholarships, Class of 1907

#### Alumni Competitive Scholar

GEORGE FREDERICK COMSTOCK

#### Hewitt Scholar

MICHAEL SOLOMAN

### PRIZES

#### Alumni Association Prize

ALEXANDER OTTO BECHERT

#### Chanler Historical Prize

LEONARD MICHAEL WALLSTEIN

#### National Society of the Sons of the American Revolution Medal

ROBERT LIVINGSTON SCHUYLER

#### Sons of the Revolution Medal

LEONHARD FELIX FULD

COLLEGE OF PHYSICIANS AND SURGEONS

Harsen Prizes for Proficiency at Examination

First Prize: ALFRED JEROME BROWN, A.B.

Second Prize: PETER IRVING, A.B.

Third Prize: ISAAC WILLIAM KINGSBURY, A.B.

Examination Honors

ALFRED JEROME BROWN, A.B.

JAMES PENDLETON ERSKINE, A.B.

ISAAC WILLIAM KINGSBURY, A.B.

HERMAN OTTO MOSENTHAL, A.B.

FREDERICK BROWN HUMPHREYS, Ph.B.

ROYAL STORRS HAYNES, Ph.B.

HANS ZINSSER, A.B.

WARD SLOSSON GREGORY, Ph.B.

JESSE GODFREY M. BULLOWA, A.B.

PETER IRVING, A.B.

Harsen Prizes for Clinical Reports

First Prize: ALFRED JEROME BROWN, A.B.

Second Prize: JOSEPH GREIF

Third Prize: PETER IRVING, A.B.

Cartwright Prize

GEORGE W. CRILE, M.D.

Stevens Triennial Prize

Divided between { L. PIERCE CLARK, M.D.  
THOMAS P. PROUT, M.D.

SCHOOL OF POLITICAL SCIENCE

Bennett Prize

WALTER SCOTT SPIEGELBERG

Toppan Prize

CHARLES AUSTIN BEARD

BARNARD COLLEGE

Kohn Mathematical Prize

MARION ELIZABETH LATHAM

Herrman Botanical Prize

MARION ELIZABETH LATHAM

TEACHERS COLLEGE

Society of Colonial Dames Prize

CLARA FITZGERALD MANN

UNIVERSITY

Bunner Medal

GERARD BERNARD WERNER



## DIRECTORY OF OFFICERS

B. = Barnard College.	H. M. S. = Horace Mann School.	So. = South Hall.
C. = Columbia College.	L. = Library.	Sp. S. = Speyer School.
Ea. = Earl Hall.	P. & S. = College of Physicians and Surgeons.	T. = Teachers College.
E. = Engineering.	S. = Schermerhorn.	U. = University.
F. = Fayerweather.		V. C. = Vanderbilt Clinic.
H. = Havemeyer.		W. = West.

The numbers following the names indicate the page on which the name and title of the officer appear in full.

NAME	OFFICE HOURS	OFFICE	RESIDENCE
Abbe, R. Clin. Lect. (5)		P. & S.	13 W. 50
Abbott, A. Tr.		H. M. S.	416 W. 118
Abbott, H. V. Instr.		T.	417 W. 114
Adler, F. Prof. (4)			123 E. 60
Aldrich, J. Clin. Asst. (13)		V. C.	164 W. 81
Alline, Anna L. Instr.		T.	402 W. 124
Anthony, Kate S. Tr.		H. M. S.	2337 Broadway
Arendt, M. Lect. (10)	M. 9.30-10.30; Tu. 11.30-12.30; Th. 1.30-3.30		
Atwood, C. E. Clin. Asst. (12)		503 E.	1851 Seventh ave.
Austin, Isabella, Asst.		V. C.	10 W. 16
Ayer, J. C. Clin. Asst. (12)		Sp. S.	1230 Amsterdam ave.
		V. C.	31 W. 36
Bacon, Georgia F. Tr.		H. M. S.	1230 Amsterdam ave.
Bagster-Collins, E. W. Adj. Prof. (5)	M. W. 9.30-10.30; F. 1.30-2.30		
Bailey, F. R. Instr. (7)		231 T.	522 W. 123
		P. & S.	1165 E. Jersey, Elizabeth, N. J.
Bailey, P. Instr. (7)		P. & S.	52 W. 53
Baker, C. M. Tr.		H. M. S.	417 W. 114
Baker, F. T. Prof. (2)	M. W. S. 10.30	323 T.	Park Hill, Yonkers, N. Y.
Baker, G. H. Emer. Lib. (14)			294 Manhattan ave.
Baker, Helen B. Tr.		H. M. S.	140 W. 87
Baldwin, Elizabeth G. Lib. Teachers College		316 T.	469 Main, E. Orange, N. J.
Ball, A. B. Prof. (5)		P. & S.	42 W. 36
Banker, C. E. Asst. (10)		P. & S.	251 W. 127
Bargy, H. Tutor (8)	M. W. 2.30	305 W.	201 W. 101
Barnum, Edith C. T.		H. M. S.	151 W. 105
Bastedo, W. A. Tutor (9)		P. & S.	120 W. 58
Batchelder, Evelyn; T.		H. M. S.	417 W. 118
Batchelder, Mildred I. T.		H. M. S.	415 W. 118
Bayles, G. J. Lect. (10)	F. 4.30	405 L.	404 Main, Orange, N. J.

NAME	OFFICE HOURS	OFFICE	RESIDENCE
Beans, H. T. Tutor (9)	Tu. 11.30-12.30	516 H.	85 W. 118
Benns, C. P. Instr. (6)		125 T.	18 Landscape ave., Yonkers, N. Y.
Benton, Eliza, Asst.		T.	527 W. 123
Berg, H. W. Instr. (7)		P. & S.	923 Madison ave.
Berger, Jane, Asst. Sec.		T.	1230 Amsterdam ave.
Berkeley, Frances C. Asst. (11)	M. 11.30-12.30	136 B.	417 W. 118
Berkey, C. P. Tutor (9)	Daily 12.30-1.30	302 S.	2373 Seventh ave.
Berliner, R. W. Asst. (11)	Daily 9-5	308 E.	145 W. 78
Bickham, W. S. Asst. Instr. (6)		P. & S.	922 Madison ave.
Bigelow, M. A. Adj. Prof. (5)	M. 11-11.30; F. 2.30-3.30	301 T.	223 W. 106
Biggs, G. P. Dem. (8)		P. & S.	133 W. 71
Biklé, C. E. Adj. Prof. (2)	M. W. F. 4.30	211 T.	527 W. 124
Bingham, A. W. Asst. Dem. (8)		P. & S.	266 W. 88
Bisbee, B. H. Tutor (9)		507 S.	418 W. 118
Black, A. Instr. (7)	Absent on leave		
Blake, J. A. Prof. (5)		P. & S.	601 Madison ave.
Boag, E. T. Asst. Registrar (xii)		P. & S.	3 Lenox ave., White Plains, N. Y.
Boas, F. Prof. (3)	Tu. Th. 11.30	405 S.	123 W. 82
Bogert, M. T. Adj. Prof. (4)	M. Tu. Th. F. 2.30-4.30	408 H.	
Bolles, M. N. Tutor (9)	Tu. Th. 1.30-4.30	102 H.	363 W. 123
Botsford, G. W. Instr. (10)	M. 11.30 W. 11.30; S. 9.30	B.	319 U.
Bovaird, D. Tutor (8)		P. & S.	48 S. Ninth ave., Mt. Vernon, N. Y.
Bradley, W. L. Clin. Asst. (12)		V. C.	126 W. 58
Braun, W. A. Tutor (9)	Absent on leave		119 W. 75
Brewer, G. E. Prof. (5)		P. & S.	61 W. 48
Brewster, W. T. Adj. Prof. (4)	Tu. S. 10.30-11.30	137 B.	307 W. 93
Brinsmade, D. B. Clin. Asst. (12)		V. C.	576 West End ave.
Britton, N. L. Emer. Prof. (14)			N. Y. Botanical Gar- den
Brooks, F. E. Tr.		H. M. S.	417 W. 114
Brooks, Mrs. Marie K. Tr.		H. M. S.	417 W. 114
Brouner, W. B. Clin. Asst. (13)		V. C.	256 W. 12
Brugman, A. F. Clin. Asst. (13)		V. C.	201 W. 139
Bruner, F. G. Asst. (11)	M. W. F. 8.30; 11.30; 4.30	510 S.	428 W. 122
Bryant, W. S. Instr. (7)		P. & S.	48 W. 40
Buck, A. H. Clin. Prof. (5)		P. & S.	48 W. 40
Bull, W. T. Prof. (1)		P. & S.	35 W. 35
Burchenal, Elizabeth, Tr.		H. M. S.	142 W. 104
Burdick, F. M. Prof. (2)	Tu. Th. 11.30-1	302 L.	The Lowell, 120 and Amsterdam ave.
Burgess, J. W. Prof and Dean Sch. of Pol. Sci. (1)	M.-Th. 3.30-4.30	404 L.	323 W. 57
Burr, W. H. Prof. (2)	M. W. Th. 11.30	401 E.	151 W. 74

NAME	OFFICE HOURS	OFFICE	RESIDENCE
Burton-Opitz, R. Instr. (7)		P. & S.	126 W. 66
Butler, Eliza R. Tr.		H. M. S.	119 E. 30
Butler, N. M. Pres. and Prof. (1)	M. W. F. 11-12; 1.30-3.30	213 L.	119 E. 30
Caldwell, A. Asst. (11)	M. 2.30-3	505 F.	91 Sixth ave., Bklyn.
Calhoun, Mary E. Tr.		H. M. S.	245 W. 104
Calkins, G. N. Adj. Prof. (4)	W. Th. 10.30-11.30	604 S.	1 W. 81
Canfield, Dorothea F. Sec. H. M. S.		H. M. S.	Graham Court, Seventh ave. and 116
Canfield, G. F. Prof. (2)	Tu. Th. 11.30	302 L.	32 E. 33
Canfield, J. H. Librarian (xiii)	M.-F. 10-12.30	L.	Graham Court, Seventh ave. and 116
Carmalt, C. Asst. Dem. (8)		P. & S.	130 E. 36
Carmody, F. X. Lect. (10)	M. W. F. 4	506 F.	557 W. 124
Carpenter, G. R. Prof. (2)	Tu. Th. 11.30; S. 10.30	508 F.	137 W. 93
Carpenter, W. H. Prof. (1)	M. F. 2.30; Tu. Th. 1.30	316 U.	253 W. 100
Carr, M. L. Clin. Asst. (13)		V. C.	353 W. 57
Cartwright, O. G. Tr.		H. M. S.	523 W. 124
Castle, E. H. Prof. (2)	Tu. 10-10.30; Th. 3.30-4	320 T.	359 W. 121
Cattell, J. McK. Prof. (2)	Tu. Th. 2.30	413 S.	Garrison, N. Y.
Chambers, V. J. Tutor (9)	Daily 2.30-4.30	405 H.	527 W. 124
Chandler, C. F. Prof. (1)	M. W. F. 1-4; Tu. Th. S. 10-4	303 H.	51 E. 54
Chandler, F. W. Lect. (10)	M. F. 4.15-4.30; W. 4-4.30	511 F.	22 Orange, Bklyn.
Chittenden, A. S. Asst. (11)		P. & S.	164 W. 74
Churchill, A. V. Prof. (3)	Tu. 3.30; W. Th. 11.30	427 T.	527 W. 124
Cilley, A. H. Clin. Asst. (12)		V. C.	152 E. 34
Clark, J. B. Prof. (2)	M. Tu. W. 2-2.25	202 W.	616 W. 113
Clark, L. P. Clin. Asst. (12)		V. C.	62 W. 58
Coburn, Bessie M. Tr.		H. M. S.	1230 Amsterdam ave.
Cochran, G. H. Clin. Asst. (12)		V. C.	60 W. 50
Cochran, Katherine M. Tr.		H. M. S.	The Foxhall, Amsterdam ave. and 116
Cohn, A. Prof. (2)	M. W. 12.30	309 W.	Bway. and 55
Cole, F. N. Prof. (3)	W. 1.30	406 C.	
Cole, L. G. Clin. Asst. (12)		V. C.	936 West End ave.
Coley, W. B. Clin. Lect. and Instr. (5)		P. & S.	5 Park Ave.
Coll, A. P. Clin. Asst. (13)		V. C.	157 Lexington ave.
Collins, H. D. Asst. Dem. (8)		P. & S.	50 W. 55
Colton, Elizabeth A. Asst.		H. M. S.	1230 Amsterdam ave.
Connell, K. A. Asst. (11)		P. & S.	18 W. 16
Cook, F. R. Clin. Asst. (12)		V. C.	96 Park ave.
Corwin, A. S. Asst. (11)		P. & S.	204 W. 55
Cox, R. Clin. Asst. (12)		V. C.	547 Madison ave.

NAME	OFFICE HOURS	OFFICE	RESIDENCE
Cragin, E. B. Prof. (3)		P. & S.	10 W. 50
Crampton, H. E. Adj. Prof. (4)	W. 10.30-12.30 Tu. Th. 2.30-3.30	611 S.	
Crawford, J., Jr. Asst. (11)	Tu. W. Th. 1.30-4.30	408 B.	201 W. 122
Cregier, A. M. Tutor (9)	Daily 1.30-2.30	106 S.	478 Mt. Hope pl.
Crocker, F. B. Prof. (2)	Tu. W. 11.30-12.30; Th. 2.30-4.30	604 E.	Mt. Vernon, N. Y.
Cruser, F. V. Asst. (11)	M.-Th., S. 1.30-2.30	503 E.	
Cunningham, R. H. Instr. (7)		505 H.	195 Clinton, Bklyn.
Curtis, C. C. Tutor (8)	Tu. 2.30-4.30	P. & S.	200 W. 56
Curtis, E. Emer. Prof. (14)		502 S.	202 W. 119
Curtis, J. G. Prof. and Acting Dean, School of Medicine (1)			120 Broadway
		P. & S.	327 W. 58
Dade, C. T. Clin. Asst. (13)		V. C.	68 E. 56
Daniell, Lucetta, Directress Teachers College		107 T.	1230 Amsterdam ave.
Darrach, W. Asst. Dem. (8)		P. & S.	852 Lexington ave.
Davis, B. Tutor (9)		F.	509 W. 124
Davis, J. A. Asst. Gym.		Gym.	420 W. 160
Day, Helen M. Asst.		T.	507 W. 124
Day, W. S. Lect. (10)	Tu. W. Th. 1.30-4.30	401 F.	337 W. 87
Dayton, H. Clin. Asst. (12)		V. C.	200 W. 57
Dean, B. Adj. Prof. (3)	M.-F. 2.30	605 S.	20 W. 82
Dederer, Pauline H. Asst. (11)	M. 12.30-1.30	403 B.	950 St. Nicholas ave.
Delafield, F. Emer. Prof. (14)			12 W. 32
Delano, W. A. Tutor (9)	W. 9.30-10.30	613 H.	42 Fifth ave.
Ditman, N. E. Instr. (7)		P. & S.	839 Madison ave.
Doane, H. F. Tr.		H. M. S.	252 W. 104
Dodge, R. E. Prof. (3)	M.-Th. 10.30-12.30; Tu. Th. 2.30-4	203 T.	Lakeside Drive, Park Hill, Yonkers, N. Y.
Dow, E. L. Dem. and Tutor (8)		P. & S.	49 W. 57
Dowd, C. N. Instr. (6)		P. & S.	135 W. 73
Draper, W. K. Instr. (6)		P. & S.	121 E. 36
Dunning, W. A. Prof. (2)	M. W. 12.30-1	323 U.	256 W. 57
Dutton, S. T. Prof. (3)	M. Tu. Th. F. 9-10; Tu. Th. 3-5	H. M. S.	930 West End ave.
Dwight, J., Jr. Clin. Asst. (13)		V. C.	2 E. 34
Earle, M. L. Prof. (3)	M. W. 2.30-3.30	209 B.	462 W. 22
Egbert, J. C., Jr. Prof. (3)	Absent on leave		
Eliot, E., Jr. Clin. Lect. and Dem. (5)		P. & S.	48 W. 36
Ellard, C. H. Tutor (9)	Tu. 11.30; S. 12.30	510 H.	7 W. 117



NAME	OFFICE HOURS	OFFICE	RESIDENCE
Emerson, H. Asst. Dem. (8)		P. & S.	260 W. 57
Erb, F. C. Sup. Lib.		L.	520 W. 123
Erb, F. W. Sup. Lib.		L.	520 W. 123
Evans, E. M. Tutor (9)		P. & S.	38 W. 48
Falk, M. S. Instr. (7)	Tu. Th. 1.30- 2.30	509 E.	44 W. 53
Farnsworth, C. H. Adj. Prof. (4)	Tu. F. 2.30- 3.30	118 T.	1230 Amsterdam ave.
Farnsworth, Mrs. C. H.			1230 Amsterdam ave
Head Whittier Hall			412 W. 115
Farrand, L. Prof. (3)		513 S.	412 W. 115
Farrington, F. E. Dir. Neigh- borhood Work, Speyer School		Sp. S.	604 W. 115
Fauver, E. Tr.		H. M. S.	372 W. 120
Findlay, W. Tutor (9)	M. W. F. 11.30	309 B.	5 W. 125
Fischer, C. S. Clin. Asst. (12)		V. C.	144 E. 38
Fisher, G. F. Bursar (xii)	M.-F. 9-5; S. 9-12	108 L.	124 E. 24
Fiske, T. S. Prof. (2)	M. W. F. 11	401 C.	1690 Broadway
Fitz-Gerald, J. D., II, Tutor (9)	M. W. 1.30	306 W.	557 W. 124
Flint, C. P. Asst. Dem. and Instr. (8)		P. & S.	61 W. 48
Floyd, R. Lect. (10)		P. & S.	13 Central pk. W.
Foote, E. M. Instr. (6)		P. & S.	67 W. 48
Forbes, C. Curator (10)		F.	
Forbes, C. S. Asst. (10)	M.-F. 9.30- 12	410 C.	133 E. 29
Fountain, C. R. Asst. (11)	M. W. F. 11.30	303 F.	509 W. 124
Fowler, S. W. Clin. Asst. (13)		V. C.	116 W. 103
Fox, G. H. Clin. Prof. (5)		P. & S.	18 E. 31
Freese, Cecile, Tr.		H. M. S.	The Emerson, 500 W 121
French, Isabel C. Prin. H. M. Kindergarten		H. M. S.	3133 Broadway
Frisbie, Fannie C. Tutor (9)	Tu. Th. 11.30- 12.30	232 B.	430 W. 118
Frissell, L. F. Clin. Asst. (12)		V. C.	113 E. 56
Frothingham, R. Instr. (6)		P. & S.	7 W. 39
Fuld, J. E. Clin. Asst. (13)		V. C.	169 E. 82
Furst, C. Sec. Teachers College (xiii)	M.-F. 1-10; 2-4; S. 10-12	106 T.	Lowerre Summit, Yonkers, N. Y.
Gallaudet, B. B. Dem. and Instr. (8)		P. & S.	60 W. 50
Geer, Mrs. Cora N. Sec. to Prin. H. M. El. Sch.		H. M. S.	Broadway, Kings- bridge
Gerrish, Charlotte B. Tr.		H. M. S.	527 W. 124
Gibney, V. P. Clin. Prof. (5)		P. & S.	16 Park ave.
Gibson, L. M. Clin. Asst. (12)		V. C.	157 W. 81
Giddings, F. H. Prof. (2)	Tu. 4.30; F. 2	403 L.	150 W. 79
Gies, W. J. Adj. Prof. (4)		P. & S.	142 W. 70
Gilbert, W. M. Chief Clerk	M.-F. 9-5; S. 9-12	213 L.	364 W. 121
Gildersleeve, Virginia C. Tutor (9)	Th. 11.30	136 B.	28 W. 48

NAME	OFFICE HOURS	OFFICE	RESIDENCE
Gill, Laura D. Dean Barnard College (xii)	M. Tu. Th. 11-12; 2-3; F. 11-12	B. V. C. H. M. S.	425 West End ave. 245 W. 11 419 W. 118
Gilley, W. C. Clin. Asst. (13)			
Gillmore, Mary B. Tr.			
Gilman, Grace C. Deputy Registrar (xiii)	M.-F. 9-4; S. 9-12	T. Sp. S.	874 West End Ave. 412 W. 124
Glanton, Louise, Asst.			
Goetze, F. A. Supt. of B. & G. (xiii)	M.-F. 10-11	110 L.	606 W. 113
Gohdes, W. H. Tr.		H. M. S.	1161 Amsterdam ave.
Goodell, G. A. Tutor (8)	Daily 9-1	P. & S.	529 W. 123
Goodhardt, S. P. Clin. Asst. (12)		V. C.	131 E. 64
Goodnow, F. J. Prof. (1)	M. W. 3.30	407 L.	49 Riverside dr.
Gottheil, R. J. H. Prof. (1)		309 U.	2074 Fifth ave.
Grabau, A. W. Adj. Prof. (4)	Tu. W. Th. 9.30	101 S.	527 W. 124
Gray, C. Tutor (9)	M. W. F. 1.30-2	410 C.	206 W. 119
Guernsey, R. Tutor (9)	M.-F. 2.30-3.30	306 C.	216 W. 121
Gumaer, A. H. Instr. (7)		613 H.	114 Clinton ave., Jersey City, N. J.
Haas, S. V. Clin. Asst. (13)		V. C.	2493 Broadway
Hackett, Irene A. Tr.		H. M. S.	415 W. 118
Hale, H. E. Asst. Dem. (8)		P. & S.	200 W. 57
Hall, Mrs. Cornelia. Tr.		Sp. S.	510 W. 124
Hall, E. J. Tutor (9)	Daily 9-12	206 H.	600 W. 116
Hallock, W. Prof. (2)	M.-F. 12.30	308 F.	417 W. 118
Hamilton, C. M. Tutor (9)	Tu. Th. 11.30-12.30	507 F.	360 W. 123
Hamlin, A. D. F. Adj. Prof. (1)	M. W. F. 10.30-11.30	607 H.	1285 Columbus ave.
Hansen, S. M. Tr.		H. M. S.	437 Manhattan ave.
Harlow, E. Clin. Asst. (13)		V. C.	13 E. 77
Harpham, Flora E. Computor (10)		602 F.	321 E. 116
Harriman, C. A. Instr. (6)		605 H.	439 W. 123
Harrington, T. H. Tutor (9)	Tu.-S. 9.30-4.30	605 E.	West Chester, N. Y.
Hart, T. S. Clin. Asst. (12)		V. C.	130 W. 59
Hartley, F. Prof. (5)		P. & S.	52 W. 50
Hartmann, W. L. Clin. Asst. (13)		V. C.	744 E. 5
Hathaway, C. M., Jr. Tutor (9)		509 F.	530 W. 123
Hawkes, F. Instr. (7)		P. & S.	42 E. 26
Hawley, Harriet, Sec. to Dean Teachers College		T.	1230 Amsterdam ave.
Hayden, J. R. Instr. (6)		P. & S.	107 W. 55
Hayes, A., Jr. Tutor (9)	Tu. Th. 3.30-4.30	305 L.	10 E. 43
Hazen, T. E. Tutor (9)	M. W. F. 9.30	320 B.	174 W. 87
Healy, W. P. Clin. Asst. (12)		V. C.	346 W. 57
Hendren, L. L. Asst. (11)		F.	509 W. 124
Herter, C. A. Prof. (5)	Absent on leave		
Hervey, W. A. Instr. (6)	Tu. 11.30; F. 1.30	W. 3.30; 315 U.	607 W. 138

NAME	OFFICE HOURS	OFFICE	RESIDENCE
Heuser, F. W. J. Lect. (10)	M. W. 11.30	113 B.	154 Hewes, Bklyn.
Hill, E. Y. Clin. Asst. (13)		V. C.	111 W. 71
Hinrichs, G. Conductor of Music (10)	W. 4-4.30	204 So.	569 E. 178
Hirst, Gertrude M. Tutor (9)		212 B.	415 W. 118
Hirth, F. Prof. (4)	Tu. 12.30	326 U.	501 W. 113
Hiss, P. H., Jr. Adj. Prof. (4)		P. & S.	262 W. 83
Hitchcock, Harriet A. Tr.		H. M. S.	361 W. 57
Hodenpyl, E. Instr. (6)		P. & S.	16 W. 52
Hodge, R. M. Lect.		T.	700 Park ave.
Hodgson, J. H. P. Clin. Asst. (13)		V. C.	29 Washington sq.
Hofer, Mari R. Tr.		H. M. S.	The Melville, Amsterdam ave. and 118
Hofman, H. O. Lect. (10)			Mass. Inst. of Technology, Boston, Mass.
Holbrook, R. T. Tutor (9)	Tu. 2.30-3.30	111 B.	Yonkers, N. Y.
Holden, W. A. Instr. (7)		P. & S.	43 W. 48
Holroyd, C. A. Instr. Gym.			86 Lawrence
Holt, L. E. Prof. (4)	P. & S.		14 W. 55
Hook, E. A. Tutor (9)	Tu. Th. 11.30-12.30	410 C.	220 W. 105
Hooker, W. B. Asst. (11)	M. Th. 10.30-11.30	507 F.	360 W. 123
Hotchkiss, Caroline W. Tr.		H. M. S.	430 W. 118
Hotchkiss, L. W. Instr. (6)		P. & S.	37 W. 48
House, H. D. Asst. (11)		502 S.	N. Y. Botanical Garden
Howe, H. M. Prof. (3)	Absent on leave		
Howland, A. C. Instr.		T.	527 W. 124
Howland, J. Clin. Asst. (13)		V. C.	49 E. 53
Hubbard, S. D. Clin. Asst. (13)		V. C.	143 W. 103
Hughes, P. Asst. (11)	M. Tu. 1.30	419 L.	602 W. 147
Humphries, H. R. Clin. Asst. (12)		V. C.	179 W. 88
Hunt, E. L. Clin. Asst. (12)		V. C.	61 E. 73
Huntington, F. C. Lect. (10)		L.	804 Broadway
Huntington, G. S. Prof. (1)		P. & S.	240 W. 76
Hurd, L. M. Clin. Asst. (13)		V. C.	19 E. 38
Hurlbut, S. A. Lect. (10)	M.-F. 9.30-11.30	112 B.	204 W. 92
Hutton, F. R. Prof. and Dean			319 W. 107
Schools of Applied Science (1)	Tu. Th. 11.30	308 H.	
Hyde, Mary B. Instr.		T.	1230 Amsterdam ave.
Inglis, A. J. Tr.		H. M. S.	527 W. 124
Isham, Helen, Asst. (11)	M.-F. 2-3	431 B.	14 Morningside ave.
Jackson, A. V. W. Prof. (2)	M. 11.30	306 U.	16 Highland pl., Yonkers, N. Y.
Jackson, F. W. Instr. (6)		P. & S.	68 W. 55
Jackson, G. T. Instr. (6)		P. & S.	15 E. 29
Jackson, H. A. Asst. (11)	Daily 10-12	409 H.	Knowlton Hall, Bway.
Jackson, J. A. Clin. Asst. (13)		V. C.	344 W. 85
Jacobi, A. Emer. Prof. (14)			19 E. 47
Jacoby, H. Adj. Prof. (2)	M. W. 10.30-12	608 F.	333 W. 76
Jaeger, C. H. Clin. Asst. (12)		V. C.	24 W. 59

NAME	OFFICE HOURS	OFFICE	RESIDENCE
James, W. B. Prof. (4)		P. & S.	17 W. 54
Jardine, J. Asst.		H. M. S.	Edgewater, N. J.
Jelliffe, S. E. Instr. (7)		P. & S.	64 W. 56
Jenkins, Grace E. Asst.		H. M. S.	Mt. Vernon, N. Y.
Jessup, D. S. D. Asst. and Medical Visitor (10)	Daily 5-6 and by appointment		410 West End ave.
Johnson, A. S. Tutor (9)	M. W. 2-4	206 W.	533 W. 145
Jones, A. L. Tutor (9)		416 L.	Knowlton Hall, Bway.
Jones, W. Asst. (11)	Tu. Th. 11.30	507 S.	528 W. 123
Jordan, D. Instr. (7)	M. W. 2.30	301 W.	315 W. 94
Jouët, C. H. Tutor (8)	Tu.-S. 1.30- 2.30	505 H.	Roselle, N. J.
Julien, A. A. Curator (10)	Daily 10-12	303 S.	505 W. 124
Kaps, J. D. Tutor (9)	Tu. Th. 4.30- 5.30	305 L.	929 Amsterdam ave.
Kasner, E. Tutor (8)	Tu. Th. 10.30	309 B.	121 E. 114
Keller, Eleanor, Lect. (10)		B.	13 Livingston pl.
Kellicott, W. E. Tutor (9)	Tu. Th. 1.30 W. 11.30	402 B. 602 S.	321 St. Nicholas ave.
Kellogg, G. S. Curator		T.	
Kemp, J. F. Prof. (2)	Tu. Th. 2.30- 3.30	401 S.	211 W. 139
Kennedy, A. D. Tr.		H. M. S.	415 W. 118
Kent, E. B. Tutor		T.	507 W. 124
Kenyon, J. H. Clin. Asst. (12)		V. C.	47 W. 44
Keppel, F. P. Sec. (xii)	M.-F. 10-12; 2-4; S. 10-12	213 L.	239 E. 17
Keppler, C. R. Clin. Asst. (12)		V. C.	24 W. 59
Keppler, E. A. C. Asst. (10)	Th. 11.30; F. 4.30	310 U.	357 W. 115
Keyser, C. J. Adj. Prof. (5)	Tu. Th. 10.30	407 C.	510 W. 124
Kind, John L. Asst.	M. W. 11.30	331 T.	
Kinne, Helen, Prof. (3)	M. Th. 11.30; Tu. 3.30	417 T.	8 Morningside ave.
Kinnicutt, F. P. Prof. (5)		P. & S.	39 E. 35
Kirchwey, Clara B. Tr.		T.	605 W. 113
Kirchwey, G. W. Prof. and Dean School of Law (2)	M.-F. 12.30	206 L.	605 W. 113
Kirchwey, Mary F. Tr.		H. M. S.	605 W. 113
Kliene, R. J. H. Asst. (11)	M. 5.30	406 W.	12 Leland ave., New Rochelle, N. Y.
Knapp, A. H. Lect. (10)		P. & S.	26 W. 40
Knapp, C. Adj. Prof. (4)	M. W. 1.30- 2.30	112 B.	1773 Sedgwick ave. 26 W. 40
Knapp, H. Emer. Prof. (14)			
Knox, Alice A. Asst. (11)	M.-F. 10.30- 12.30	312 B.	216 W. 102
Knox, Mary F. Registrar Barnard College (xii)	M.-F. 9-5; S. 9-12	B.	216 W. 102
Krapp, G. P. Tutor (and Instr. T.) (9)	Tu. Th. 11.30; Th. 2.30	509 F.	417 W. 114
Kress, M. K. Curator and Lect. (10)	M.-F. 2.30- 4.30	610 H.	159 W. 49



NAME	OFFICE HOURS	OFFICE	RESIDENCE
Krystall, B. E. Clin. Asst. (12)		V. C.	53 E. 86
Kurtz, E. L. Instr. (7)	M. W. F. 10.30-11.30	408 E.	414 W. 118
La Fetra, L. E. Instr. (7)		P. & S.	58 W. 58
Lambert, A. V. Asst. Dem. (8)		P. & S.	2 E. 37
Lambert, S. W. Prof. (5)		P. & S.	130 E. 35
Latham, Helen, Asst.		H. M. S.	
Lathrop, Susan A. Tr.	Absent on leave		
Laudy, L. H. Tutor (8)	M.-F. 9-5	313 H.	15 W. 65
Leaming, E. Instr. (6)		P. & S.	117 W. 84
Lee, F. S. Adj. Prof. and Dem. (3)		P. & S.	64 Park ave.
Lefferts, G. M. Clin. Prof. (5)		P. & S.	212 Madison ave.
Leshure, J. Clin. Asst. (13)		V. C.	153 Convent ave.
Lewis, Mary H. Tr.		H. M. S.	414 W. 118
Lewis, R., Jr. Instr. (6)		P. & S.	48 W. 40
Liggett, Mrs. N. W. Bursar Barnard College (xii)	M.-F. 10-4; S. 10-1	B.	
Lindquist, Tina E. Med. Asst. H. M. S.		H. M. S.	14 Irving pl.
Ling, G. H. Tutor (8)	M. W. F. 9.30-10.30	408 C.	242 W. 135
Lloyd, F. E. Adj. Prof. (3)	M. 9.30; Tu. Th. 11.30	403 T.	272 Manhattan ave.
Lobenstine, R. W. Instr. (7)		P. & S.	457 W. 59
Lockwood, G. R. Instr. (6)		P. & S.	18 E. 52
Lodge, G. Prof. (3)	M. W. 2.30-3.30; Th. 11-12	328 T.	1161 Amsterdam ave.
Loiseaux, L. A. Instr. (6)	Th. 2.30	303 W.	503 W. 124
Lord, H. G. Prof. (3)	W. F. 10.30-11.30	416 L.	618 W. 113
Lovell, E. B. Adj. Prof. (3)	Tu. Th. 9-9.30; F. 11.30-12	508 E.	235 W. 102
Lucke, C. E. Instr. (7)	M. Th. 11.30-12.30	304 E.	Marble Hill, Kings- bridge
Luquer, L. McI. Instr. (6)	W. F. 11.30	306 S.	321 W. 80
Luther, J. B. Asst. (11)	Tu. 10.30-11.30	516 H.	22 Bergenline ave., Union Hill, N. J.
McBurney, C. Prof. (5)		P. & S.	28 W. 37
McCarthy, J. L. Clin. Asst. (12)		V. C.	425 Lexington ave.
McCastline, W. H. Med. Asst. Teachers College		T.	108 E. 81
McClelland, J. F. Lect. (10)	M.-F. 10.30-12.30	405 E.	541 W. 124
McConnell, R. H. Clin. Asst. (13)		V. C.	42 W. 97
McCosh, A. J. Clin. Lect. (5)		P. & S.	16 E. 54
McCoy, J. J. Clin. Asst. (13)		V. C.	139 W. 97
McCrea, N. G. Prof. (3)	Tu. Th. 11-11.30	310 C.	417 W. 118
McGregor, J. H. Instr. (7)	Tu. Th. 10.30-12.30	610 S.	507 W. 124
McKenzie, E. T. Clin. Asst. (12)		V. C.	408 W. 58
McLane, J. W. Emer. Prof. (14)			51 W. 38

NAME	OFFICE HOURS	OFFICE	RESIDENCE
McMurry, F. M. Prof. (3)	M. W. F. 1.15; S. 10	313 T.	9 Hillside dr., Park Hill, Yonkers, N. Y.
McNary, E. E. Tr.		H. M. S.	370 W. 120
McRae, Frances E. Tr.		H. M. S.	81 Morningside ave.
McWhood, L. B. Tutor (8)	W. 10.30	206 S.	511 W. 112
McWilliams, C. A. Instr. (7)		P. & S.	50 E. 53
MacAlarney, Emma L. Tr.		H. M. S.	67 St. Nicholas ave.
MacDowell, E. A. Prof. (3)	W. 10.30	203 So.	Westminster Hotel
MacLay, J. Adj. Prof. (4)	Tu. Th. 10.30	404 C.	415 W. 118
MacLear, Martha, Sec. to Prin.			
H. M. High Sch.		H. M. S.	457 W. 123
MacVannel, J. A. Instr.		T.	2441 Seventh ave.
Mallett, G. H. Clin. Asst. (12)		V. C.	171 W. 71
Maltby, Margaret E. Adj. Prof. (4)	W. 10.30-12.30		
Manson, L. S. Clin. Asst. (12)		240 B.	567 W. 113
March, Maud, Instr.		V. C.	2000 Madison ave.
Markoe, F. H. Prof. (5)		T.	1230 Amsterdam ave.
Marshall, Florence M. Asst.		P. & S.	15 E. 49
Martin, W. Instr. (6)		H. M. S.	430 W. 118
Mathews, F. S. Instr. (7)		P. & S.	68 E. 56
Matthews, B. Prof. (2)	Tu. Th. 1-1.30	P. & S.	62 W. 50
Mayer, R. E. Adj. Prof. (4)	Daily 9.30-12.30	502 F.	681 West End ave.
Meara, F. S. Asst. (11)		602 E.	149 Prospect ave., Mt. Vernon, N. Y.
Meeker, H. E. Clin. Asst. (12)		P. & S.	400 West End ave.
Mehan, Mrs. Caroline E. Asst.		V. C.	195 Lenox ave.
Menut, Eugenie, Tr.		T.	Carnegie Studios, Seventh ave. and 57
Meyer, Anna E. H. Sec. of Barnard College (xii)	Daily 9-12; 2-5	H. M. S.	560 Park ave.
Meyers, R. A. Sec. Com. on Employment for Students	M.-F. 9-5; S. 9-12	B.	Park Hill, Yonkers, N. Y.
Meylan, G. L. Adj. Prof. and Med. Director of Gymnasium (5)	M.-F. 2.30-5.30; S. 10-12	213 L.	38 Bleeker
Michaelis, A. Clin. Asst. (13)		Gym.	420 W. 160
Miller, A. M. Instr. (7)		V. C.	63 E. 110
Miller, E. H. Adj. Prof. (4)	Tu. Th. F. 11	P. & S.	341 W. 58
Miller, J. A. Clin. Asst. (12)		507 H.	312 Manhattan ave.
Miller, S. O. Tutor (8)	M.-F. 2.30-4.30	V. C.	550 Park ave.
Mills, Harriette, Tr.		603 E.	West Nyack, N. Y.
Mitchell, H. B. Tutor (8)	M.-F. 11.30-12	Sp. S.	600 W. 125
Mitchell, S. A. Tutor (8)	M. W. 10.30-11.30	402 C.	London Hill, Flushing, N. Y.
Monroe, P. Prof. (3)	Tu. Th. 2.30-3.30; S. 9.30	606 F.	317 W. 121
		314 T.	11 Prospect dr., Lowerre, Yonkers, N. Y.

NAME	OFFICE HOURS	OFFICE	RESIDENCE
Montague, W. P. Lect. (10)	Tu. Th. 10.30-11.30	416 L.	205 W. 109
Monté, L. G. Instr.		T.	430 W. 118
Moore, H. L. Adj. Prof. (4)	Tu. Th. 11.30-12.30	205 W.	501 W. 120
Moore, J. B. Prof. (2)	M.-F. 9-5	411 L.	524 W. 150
Morgan, J. L. R. Adj. Prof. (4)	M.-S. 1.30-2.30	411 H.	New Brunswick, N. J.
Moses, A. J. Prof. (1)	Tu.-S. 10-10.30	307 S.	452 W. 144
Muller, H. F. Tutor (9)	Th. 10.30-11.30; F. 4.30-5.30	408 W.	325 W. 34
Munroe, H. S. Prof. (1)	Tu. Th. 10.30-11.30	409 E.	501 W. 120
Neish, A. C. Tutor (9)		418 H.	361 W. 123
Nelson, A. H. Asst. (11)	M. F. S. 1.30-4.30	401 F.	416 W. 118
Nelson, C. A. Head Reference Librarian		L.	510 W. 143
Nichols, E. F. Prof. (5)	M. 11.30-12.30	308 F.	417 W. 118
Noble, Helen G. Asst.		T.	432 Hoboken ave., Jersey City, N. J.
Norrie, V. H. Instr. (6)		P. & S.	21 W. 37
Norris, C. Asst. (11)		P. & S.	105 W. 54
Norsworthy, Naomi, Tutor		T.	234 W. 122
Noyes, W. Instr.		T.	370 W. 120
Oastler, F. R. Instr. (7)		P. & S.	126 W. 59
Odell, G. C. D. Adj. Prof. (4)	Tu. Th. 12.30	505 F.	44 W. 44
Odell, L. S. Tr.		H. M. S.	347 Lafayette ave., Bklyn.
Ogilvie, Ida H. Lect. (10)	W. 11-12.30	214 B.	Sherman Square Hotel
O'Grady, Caroline G. Instr.		T.	Park Hill, Yonkers, N. Y.
Olcott, G. N. Lect. (10)	Tu. Th. 11.30	308 C.	438 W. 116
Ordronaux, J. Emer. Prof. (14)		S.	30 Broad
Osborn, H. F. Prof. (2)			850 Madison ave.
Osgood, H. L. Prof. (2)	Tu. Th. 4.30	320 U.	526 W. 150
Page, C. H. Lect. (10)	M. W. 10.30	305 W.	201 W. 101
Parish, E. J. Clin. Asst. (12)		V. C.	326 Lexington ave.
Parker, H. C. Adj. Prof. (5)	M.-F. 2.30-4.30	201 F.	21 Fort Greene pl., Bklyn.
Parsons, Mrs. Elsie C. Lect. (10)	Th. 2.30-3.30	308 B.	112 E. 35
Parsons, F. A. Instr.		T.	430 W. 118
Pasch, Anna K. Asst.		H. M. S.	417 W. 118
Patterson, H. S. Asst. (11)		P. & S.	51 W. 58
Peabody, Mary G. Tr.		H. M. S.	1230 Amsterdam ave.
Pearson, H. C. Prin. H. M. El. Sch.		H. M. S.	501 W. 120
Peck, C. H. Asst. Instr. (6)		P. & S.	37 W. 48
Peck, H. T. Prof. (1)		301 C.	7 W. 43
Peele, R. Adj. Prof. (2)	Absent on leave		
Pegram, G. B. Tutor (9)		201 F.	

NAME	OFFICE HOURS	OFFICE	RESIDENCE
Pellaw, C. E. Adj. Prof. (3)	W. Th. 11.30 -1	414 H. V. C.	51 E. 54 66 E. 77
Pelton, H. H. Clin. Asst. (12)		T.	82 Lexington ave.
Peniston, Caroline L. Asst.			
Periam, Annina. Asst. (11)	Tu. Th. 11.30	212 B.	55 Roseville ave., New- ark, N. J.
Perry, E. D. Prof. and Dean, Sch. of Philos. (2)	M. W. 2-2.30; 3.30-4.30	304 C.	542 W. 114
Peters, W. H. G. Assistant Bursar (xii)		P. & S.	383 First, Bklyn.
Peterson, F. Prof. (5)		P. & S.	4 W. 50
Pfister, J. C. Instr. (7)	M. W. F. 12.30- 1.30	614 F.	240 Sixth ave. (Rose- ville), Newark, N. J.
Pool, E. H. Asst. Dem. (8)		P. & S.	57 W. 45
Poor, C. L. Lect. (10)	Tu. Th. 11	610 F.	4 E. 48
Poore, C. T. Clin. Lect. (5)		P. & S.	43 W. 53
Popper, W. Lect. (10)	M. 3.30-4.30	309 U.	260 W. 93
Potter, N. B. Tutor (8)		P. & S.	9 W. 35
Pratt, Isabelle L. Appointment Secretary		T.	221 W. 104
Pratt, Marion R. Sec. to Supt. H. M. S.		H. M. S.	221 W. 104
Prentice, A. C. Clin. Asst. (12)		V. C.	252 Madison ave.
Prescott, Harriet B. Sup. Lib.		L.	17 Livingston pl.
Prettyman, V. Prin. H. M. S.		H. M. S.	Prospect terrace, Park Hill, Yonkers, N. Y.
Prince, J. D. Prof. (4)	Th. 11.30	308 U.	15 Lexington ave.
Proben, C. J. Clin. Asst. (12)		V. C.	136 E. 70
Prout, T. P. Clin. Asst. (12)		V. C.	34 W. 36
Prudden, T. M. Prof. (2)		P. & S.	160 W. 59
Pupin, M. I. Prof. (2)		203 E.	1 W. 72
Rand, Edith. Tr.		H. M. S.	223 W. 106
Rea, Matilda G. Asst.		T.	30 W. 25
Redfield, H. S. Prof. (4)	Tu.-F. 9.30- 10.30	414 L.	567 W. 113
Rees, J. K. Prof. (1)	Absent on leave		
Reimer, Marie Lect. (10)	M.-Th. 10-11	438 B.	417 W. 118
Remy, A. F. J. Instr. (7)	Tu. Th. 2.30	311 U.	112 W. 137
Reynolds, J. E. Lect. (10)	M. 4.30-5	305 L.	Claremont Hall, Broad- way and 112
Reynolds, W. S. Clin. Asst. (13)		V. C.	54 W. 94
Richard, E. Lect. (10)		U.	5 W. 63
Richards, A. N. Tutor (9)		P. & S.	361 W. 57
Richards, C. R. Prof. (3)	M.-F. 3.30-4.30; W. 11.30- 12.30	122 T.	501 W. 120
Richards, H., Jr. Sec. Earl Hall (xiii)	M. Tu. Th. F. 11-1	Ea.	
Richards, H. M. Adj. Prof. (4)	M.-S. 10.30- 12.30	316 B.	307 W. 93
Richards, J. D. Clin. Asst. (13)		V. C.	44 W. 49
Richards, J. W. Lect. (10)			Lehigh University, Bethlehem, Pa.
Richardson, W. C. Tr.		H. M. S.	86 So. Oxford, Bklyn.



NAME	OFFICE HOURS	OFFICE	RESIDENCE
Ringwalt, R. C. Lect. (10)	Tu. 4.30-5	509 F.	32 E. 28
Robbins, Ida E. Tr.		H. M. S.	417 W. 118
Robinson, J. H. Prof. (3)	Tu. 9.30-10.30; W.F. 3.30-4.30	323 U.	567 W. 113
Robinson, W. S. Instr.		T.	202 W. 74
Rogers, A. F. Tutor (9)	W. F. 11.30	308 S.	450 St. Nicholas ave.
Rogers, Lillian E. Tr.		H. M. S.	430 W. 118
Rogers, Mary, Instr.		T.	101 W. 90
Rouillion, L. Adj. Prof. (5)	M. W. 9.30	327 T.	56 W. 33
Ruger, H. A. Asst. (11)		S.	
Rule, Lillian, Asst.		Sp. S.	1230 Amsterdam ave.
Runyan, Mary D. Prof. (3)	M. Tu. Th. 11.30; W. 3.30	112 T.	511 W. 112
Russell, J. E. Prof. and Dean, Teachers College (3)	Daily 11.30- 12.30	103 T.	500 W. 121
Ryder, G. H. Clin. Asst. (12)		V. C.	135 W. 58
Ryland, Marion G. Asst.		H. M. S.	527 W. 124
Sachs, J. Prof. (4)	Tu. Th. 4-4.30	314 T.	149 W. 81
Sage, Elizabeth, Asst.		T.	2337 Broadway
Salisbury, Ethel, Asst.		Sp. S.	94 Lawrence
Sanford, W. W. Clin. Asst. (12)		V. C.	41 W. 45
Saville, M. H. Prof. (5)	M. W. 11.30	507 S.	326 W. 85
Schenck, Aletta V. W. Asst.		T.	4 W. 92
Schmitt, A. E. Asst. Instr. (7)		P. & S.	125 E. 57
Schneider, F. A. Clin. Asst. (13)		V. C.	2441 Seventh ave.
Schussler, Amy, Vice-Prin. Sp.S.		Sp. S.	558 W. 182
Scott, J. B. Prof. (5)	M. W. F. 9- 9.30	305 L.	606 W. 113
Seager, H. R. Adj. Prof. (4)	Tu. Th. 3-4	202 W.	633 W. 115
Seagrave, Mary C. Asst.		Sp. S.	3136 Broadway
Secrest, Stella W. Tr.		H. M. S.	418 W. 118
Seibert, Jeannette R. Asst.		T.	1230 Amsterdam ave.
Seiberth, P. Asst. (11)	Tu.-F. 3.30	318 U.	521 W. 123
Seligman, E. R. A. Prof. (1)	M. W. 2.30	409 L.	324 W. 86
Sever, G. F. Adj. Prof. (3)	M. W. 9.30- 11.30	504 E.	348 Central pk. W.
Shearer, L. H. Asst. Dem. (8)		P. & S.	102 E. 57
Sheldon, W. H. Tutor (9)	Tu. Th. 11.30- 12.30	416 L.	526 W. 114
Shepherd, W. R. Instr. (7)	M. W. 3.30	321 U.	1201 Bloomfield, Ho- boken, N. J.
Sherman, F. D. Adj. Prof. (2)	Tu. Th. 11.30- 12.30	601 H.	220 W. 107
Sherman, H. C. Instr. (7)	Tu. F. 10.30- 11.30	509 H.	529 W. 124
Shotwell, J. T. Instr. (7)	Tu. 3.30-4.30 Tu. 11.30- 12.30	322 U.	
Shrady, A. M. Instr. (7)		340 B.	201 W. 101
Silver, L. M. Clin. Asst. (13)		P. & S.	1 W. 68
Simkhovitch, V. G. Sup. Lib.		V. C.	103 W. 72
Simpson, W. K. Instr. (6)		307 L.	26 Jones
Skarstrom, W. Instr. Gym.		P. & S.	952 Lexington ave.
Sleffel, C. C. Instr. (6)		Gym.	420 W. 160
Sloane, T. O., Jr. Asst. (11)		32 T.	554 W. 125
		505 E.	55 Montrose ave., So. Orange, N. J.

NAME	OFFICE HOURS	OFFICE	RESIDENCE
Sloane, W. M. Prof. (3)	Absent on leave		
Smith, C. H. Asst. (11)		P. & S.	41 E. 70
Smith, D. E. Prof. (4)	M. W. 11.30	212 T.	250 W. 88
Smith, E. R. Ref. Librarian,	Avery Library,	Columbia University.	
Smith, F. C. Clin. Asst. (13)		V. C.	351 W. 51
Smith, Munroe, Prof. (1)	W. F. 2.30-3	408 L.	635 W. 115
Snelling, G. T. Instr. (6)	Daily 10.30-10.45	602 H.	56 W. 33
Solley, F. P. Tutor (8)		P. & S.	33 W. 53
Sondern, P. F. Clin. Asst. (13)		V. C.	19 E. 38
Sour, B. Clin. Asst. (13)		V. C.	68 W. 97
Speranza, C. L. Prof. (3)	Tu. F. 3.30	304 W.	1185 Lexington ave.
Spingarn, J. E. Tutor (8)	M. W. 12	401 W.	118 E. 58
Sprague, S. E. Clin. Asst. (12)		V. C.	246 W. 74
Stark, M. Clin. Asst. (12)		V. C.	58 E. 94
Starr, M. A. Prof. (1)		P. & S.	5 W. 54
Stewart, H. R. Lect. (10)	M.-F. 9.30-5.30	405 E.	400 Manhattan ave.
Stone, H. F. Adj. Prof. (5)		302 L.	930 West End ave.
Stone, W. S. Instr. (6)		P. & S.	1730 Broadway
Stoughton, B. Instr. (7)	M. W. 2-3	102 H.	319 W. 94
Strong, C. A. Prof. (5)	S. 12.30	409 S.	Lakewood, N. J.
Strong, O. S. Tutor and Asst. (8)	Tu. F. 11-12	612 S.	507 W. 124
Sumner, A. E. Instr. (6)		P. & S.	127 W. 58
Surette, T. W. Lect.		T.	40 W. 9
Sutherland, Louise C. Instr.		T.	1230 Amsterdam ave.
Swenson, J. A. Asst. (11)	M.-F. 9.30-12.30	409 C.	334 W. 124
Swift, G. M. Instr. (6)		P. & S.	20 W. 55
Sykes, F. H. Dir. of Extension			
Dept., Teachers College (5)	Daily 10.30	227 T.	Claremont Hall, Broadway and 112
Tarr, P. H. Asst. (11)		301 F.	365 Manhattan ave.
Taylor, A. S. Asst. Instr. (7)		P. & S.	152 W. 57
Taylor, H. C. Instr. (7)		P. & S.	24 W. 50
Taylor, R. W. Clin. Prof. (5)		P. & S.	40 W. 21
Terry, C. T. Prof. (4)	M. Tu. Th. F. 4.20-4.30; 5.30-6	413 L.	23 E. 77
Thacher, J. S. Prof. (5)		P. & S.	33 W. 39
Thomas, C. Prof. (3)	Tu. Th. 10.30	312 U.	Riverside dr. and 115
Thompson, J. F. Asst. (11)	Th. 9.30-10.30; F. 2-3	103 H.	21 First pl., Bklyn.
Thorndike, E. L. Adj. Prof. (4)	M. W. 1.30-2.30	T.	530 W. 123
Thurber, S. W. Clin. Asst. (13)		V. C.	251 W. 73
Timme, W. Clin. Asst. (12)		V. C.	158 W. 95
Todd, G. W. Clin. Asst. (12)		V. C.	207 W. 105
Todd, H. A. Prof. (2)	M. W. 4.30	302 W.	824 West End ave.
Tombo, R., Jr. Registrar and Instr. (7)	Daily 9.30-11; M. W. F. 2.30-4.30	109 L.	619 W. 138
Tombo, R., Sr. Tutor (8)	Tu. Th. 11.30	113 B.	273 W. 138
Townsend, F. Tutor (8)	Daily 9.30	505 E.	61 E. 64
Trent, W. P. Prof. (3)	Tu. Th. S. 12.30-1	502 F.	279 W. 71

NAME	OFFICE HOURS	OFFICE	RESIDENCE
Trenwith, W. D. Clin. Asst. (13)		V. C.	140 W. 94
Trowbridge, A. Adj. Prof. (5)	M. W. 10.30-12	604 E.	133 W. 103
Trowbridge, C. C. Instr. (7)	M.-F. 9.30-12.30	401 F.	St. Anthony Hall, Riverside dr. and 116
Tucker, S. A. Tutor (8)	Daily 9.30-5	421 H.	155 E. 61
Tufts, F. L. Instr. (7)	Absent on leave		
Tuttle, G. A. Dem. (8)		P. & S.	237 W. 44
Tyson, H. H. Instr. (7)		P. & S.	47 W. 51
Uhlig, W. C. Asst. (11)	Daily 9-1	P. & S.	242 Halsted, E. Orange, N. J.
Underhill, Laura B. Tr.		H. M. S.	430 W. 118
Underwood, L. M. Prof. (3)	M. 9.30-11.30	506 S.	
Upton, C. B. Tr.		H. M. S.	415 W. 118
Vail, Mary B. Instr.		T.	255 W. 97
Van Amringe, J. H. Prof. and Dean of Columbia College (1)	W. F. 1.30	205 C.	859 Seventh ave.
Van Arsdale, May B. Instr.		H. M. S.	457 W. 123
Van DeWater, G. R. Chaplain (xiii)	M.-F. 9.30	201 W.	7 W. 122
Van Wagenen, C. D. Clin. Asst. (13)		V. C.	39 W. 19
Van Zandt, Margaret, Sup. Lib.		L.	415 W. 118
Vogel, C. M. Asst. (11)		P. & S.	80 E. 55
Volk, W. Lect.		T.	418 W. 118
Voorhees, J. D. Lect. (10)		P. & S.	150 W. 59
Vosburgh, A. S. Asst. Dem. (8)		P. & S.	40 W. 88
Vulté, H. T. Instr. (6)		P. & S.	33 Park ave., New Rochelle, N. Y.
Wadsworth, A. B. Asst. (10)		P. & S.	112 W. 55
Wallace, C. Clin. Asst. (12)	Absent on leave		
Waller, N. B. Clin. Asst. (12)		V. C.	69 E. 90
Ware, W. R. Emer. Prof. (14)			Milton, Mass.
Warren, C. P. Tutor (8)		602 H.	31 W. 12
Watterson, Ada, Tutor		T.	153 W. 84
Weick, C. W. Instr. (6)		T.	554 W. 125
Weir, R. F. Prof. (5)		P. & S.	11 E. 54
Weiser, Lucy H. Tr.		H. M. S.	417 W. 118
Welles, Katherine, Tr.		H. M. S.	430 W. 118
Wells, J. S. C. Instr. (6)	Tu. Th. 1.30-2.30	513 H.	252 W. 91
Weston, C. P. Asst. (11)	M. W. F. 10.30-12.30	603 F.	507 W. 124
Wheeler, E. B. Asst. (11)		201 F.	420 W. 118
Wheeler, J. R. Prof. (3)	W. F. 11.30	304 C.	433 W. 117
Wheelock, Elizabeth M. Tr.		H. M. S.	430 W. 118
Whiting, J. R. Clin. Asst. (13)		V. C.	120 W. 55
Whitman, R. Instr. (6)		P. & S.	283 Lexington ave.
Whittemore, Laura B. Tr.		H. M. S.	8 Morningside ave.
Williams, L. R. Clin. Asst. (12)		V. C.	165 W. 34
Williams, R. H. Tr.		H. M. S.	527 W. 124
Wills, A. P. Instr. (7)	Tu. Th. 1.30	603 F.	Bretton Hall, Broadway and 85
Wilson, E. B. Prof. (2)		609 S.	
Winchester, Miriam C. Tr.		H. M. S.	Hotel Endicott, Columbus ave. and 81

NAME	OFFICE HOURS	OFFICE	RESIDENCE
Wissler, C. Asst. (11)	W. 9.30-11.30	407 S.	528 W. 123
Wood, F. C. Instr. (6)		P. & S.	205 W. 57
Wood, T. D. Prof. (4)	M.-F. 9.15-10; 4-4.30	107 T.	417 W. 118
Woodberry, G. E. Prof. (2)	Absent on leave		
Woodbridge, F. J. E. Prof. (4)	M. W. 3.30- 4.30	420 L.	606 W. 115
Woodhull, J. F. Prof. (1)	Tu. Th. S. 10.30- 11.30	413 T.	
Woodward, B. D. Prof. (4)	M. W. 12.30	114 B.	Monroe, N. Y.
Woodward, R. S. Prof. and Dean, Sch. of Pure Science (2)	M. W. F. 11.30-12.30	406 F.	408 W. 145
Woodworth, R. S. Instr. (7)	M. W. 9.30	409 S.	174 W. 107
Woolman, Mrs. Mary S. Prof. (3)	Tu. 10.30-11.30; Th. 3.30- 4.30	420 T. 308 E.	21 W. 101 201 Franklin, Astoria, L. I.
Woolson, I. H. Adj. Prof. (4)			
Wootton, H. W. Clin. Asst.		V. C.	35 W. 35
Wright, A. B. Clin. Asst. (12)		V. C.	Blackwell's Island
Yard, A. B. Clin. Asst. (13)		V. C.	167 W. 91
Yates, W. H. Asst. (11)	Daily 9-9.30	401 E.	309 W. 128
Yohannan, A. Lect. (10)	Tu. Th. 2.30	404 W.	321 W. 118
Young, C. H. Adj. Prof. (3)	M. 2-2.30	305 C.	312 W. 88
Zerbe, Margaret M. Asst.		T.	129 W. 120



## DIRECTORY OF STUDENTS

The italic letter following the name indicates the school in which the student is primarily registered—as follows:

<i>c</i> College	<i>pl</i> School of Political Science
<i>l</i> School of Law	<i>s</i> Schools of Mines, Chemistry, En-
<i>m</i> School of Medicine	gineering, and Architecture
<i>p</i> School of Pure Science	<i>b</i> Barnard College
<i>ph</i> School of Philosophy	<i>t</i> Teachers College
	<i>f a</i> Fine Arts

The numbers 1, 2, 3, and 4 preceding these letters indicate the class; sp, special student; gr, graduate student in the professional schools.

The names of women are printed in *italics*.

Aaron, A. <i>pl</i> 77 Quincy, Passaic, N. J.	Aggenbroad, A. A. 2 <i>l</i>
Abbott, G. 2 <i>l</i> 500 W. 121	Agger, E. E. <i>pl</i> 523 W. 124
Abe, K. <i>pl</i>	Agnew, E. <i>f. 4 t</i> 542 W. 113
Abeles, H. 3 <i>c</i>	Agnew, G. W. <i>sp m</i> 216 W. 42
Abelow, S. P. 2 <i>t</i> 123 Seigel, Bklyn.	Agnew, J. C. 4 <i>s</i> 354 W. 120
Abendroth, W. P. 4 <i>s</i> 549 W. 152	Agostini, V. D. 3 <i>m</i> 112 W. 70
Abraham, B. 2 <i>l</i> 242 E. 108	Ahrens, M. H. <i>sp t</i> 1230 Amsterdam ave.
Abrams, S. D. 2 <i>m</i>	Aicher, F. A. 3 <i>s</i> 902 West End ave.
Abrams, W. L. 1 <i>m</i> 74 Bank	Aigeltinger, A. 1 <i>s</i> 14 Leroy
Abrons, H. 1 <i>m</i> 116 E. 102	Akin, A. J., II. 3 <i>c</i> 64 W. 49
Aburatani, J. <i>pl</i> 700 Park ave.	Albert, H. W. 3 <i>c</i> 724 Ocean ave., Jersey City, N. J.
Acken, E. A. 3 <i>t</i> 67 Kingston ave., Bklyn.	Albertson, W. N. 1 <i>s</i> 483 North Grove, East Orange, N. J.
Acker, A. J. 4 <i>s</i> 337½ W. 55	Alexander, E. R. 1 <i>c</i> 608 Madison, Bklyn.
Adams, E. S. 3 <i>t</i> 600 W. 125	Alexander, L. B. 3 <i>s</i> 940 St. Nicholas ave.
Adams, H. C. 3 <i>l</i> 363 W. 122	Alexander, L. H. <i>ph</i> 209 W. 115
Adams, I. B. 1 <i>b</i> Mount Kisco, N. Y.	Allen, A. B. 2 <i>t</i> 475 Fourth, Bklyn.
Adams, <i>f. B.</i> 4 <i>b</i> 416 W. 118	Allen, A. H. 4 <i>m</i> 129 W. 61
Adams, R. A. 4 <i>m</i> 16 St. Nicholas pl.	Allen, B. G. 4 <i>m</i>
Adams, W. C. <i>sp l</i> 500 W. 123	Allen, C. 2 <i>s</i> 202 W. 103
Adams, W. H. 3 <i>l</i> 129 W. 85	Allen, C. F. 4 <i>c</i> 130 W. Seymour, Philadelphia, Pa.
Addicott, J. E. <i>gr t</i> 318 W. 121	Allen, E. B. 2 <i>t</i> 453 W. 123
Adey, M. H. 4 <i>b</i> 445 Lenox ave.	Allen, T. H. 1 <i>m</i> 126 Chestnut, Montclair, N. J.
Adsit, R. A. <i>sp t</i> 1230 Amsterdam ave.	Allen, W. F. 2 <i>l</i> 601 W. 148
Aery, W. A. 4 <i>c</i> Elmhurst, N. Y.	
Agate, F. J. 1 <i>l</i> 627 W. 115	

Allers, C. L. 3 m  
 Alliot, F. M. sp b 15 Engle,  
 Englewood, N. J.  
 Alsberg, E. ph 40 W. 94  
 Alsop, G. F. sp b 96 Remsen,  
 Bklyn.  
 Alterman, L. B. 1 l 70 Rivington  
 Alihaus, A. L. 1 b 2770 Briggs ave.  
 Alward, F. I. p 131 Catherine,  
 Elizabeth, N. J.  
 Amberg, J. L. 2 c 140 W. 88  
 Ames, G. P. 1 s 198 Franconia  
 ave., Flushing, N. Y.  
 Amos, W. A. 1 c 430 W. 118  
 Amsel, C. S. 3 l 628 Courtlandt ave.  
 Anderson, C. A. 1 m 328 W. 56  
 Anderson, G. 2 s 413 W. 117  
 Anderson, H. 2 l 1161 Amsterdam ave.  
 Anderson, H. B. sp b 114 Remsen, Astoria, L. I.  
 Anderson, H. B. 3 l  
 Andrew, W. W. gr t 519 W. 123  
 Andrews, B. R. gr t 527 W. 123  
 Andrews, T. 1 s 604 W. 115  
 Angell, M. sp t 3 W. 129  
 Ansoerge, M. C. 1 l 102 W. 132  
 Anspacher, H. 3 c 77 E. 116  
 Anspacher, L. K. ph 77 E. 116  
 Aplington, H. T. 1 c 143 W. 85  
 Appell, E. M. 4 b 30 North Tenth  
 ave., Mt. Vernon, N. Y.  
 Applegate, C. M. 4 b 1230 Amsterdam ave.  
 Applegate, E. T. R., Jr. 2 m 117 W. 63  
 Archbald, H. 1 s 33 W. 45  
 Argall, G. O. 3 s 111 W. 103  
 Armand, L. J. sp t 550 W. 149  
 Armington, H. H. 4 m 316 W. 56  
 Arms, C. L. sp b 416 W. 118  
 Armstrong, A. H. gr t 921 Lafayette ave., Bklyn.  
 Armstrong, A. P. sp s 306 W. 115  
 Armstrong, E. B. 3 m 607 River,  
 Paterson, N. J.  
 Armstrong, K. pl 416 W. 118  
 Armstrong, L. J. 1 b 203 Centre  
 ave., New Rochelle, N. Y.  
 Arnaud, L. G. 4 b 672 Tenth,  
 Bklyn.  
 Arnold, F. ph 131 E. 63  
 Arnold, H. C. sp s Upper Mont-  
 clair, N. J.  
 Arnold, J. L. gr s 369 W. 116  
 Arnold, L. S. 3 s 430 W. 118

Arnold, S. N. 4 s 200 W. 78  
 Arnold, W. C. pl 5 W. 125  
 Arnsfield, J. J. 1 s 230 W. 113  
 Arnstein, L. A. 1 s 117 E. 81  
 Aronson, L. S. 4 m 71 Clinton  
 Asch, D. 2 l 114 W. 64  
 Ashforth, G. 2 c 391 West End ave.  
 Ashley, E. 2 s 747 St. Nicholas ave.  
 Ashley, R. E. 3 s  
 Ashmead, D. C. 2 s 22 Hamilton  
 ave., Yonkers, N. Y.  
 Assenheimer, E. M. 4 m 323 E. 51  
 Astle, C. 2 m 159 W. 64  
 Atwater, C. 1 t 423a First, Bklyn.  
 Atwater, H. C. 1 s 40 W. 59  
 Auchincloss, H. 3 m 24 E. 48  
 Auerbach, E. F. 1 b 1239 Madison ave.  
 Auerbach, G. S. 1 c 40 W. 77  
 Auerbach, H. S. 2 s 40 W. 77  
 Auerbach, I. H. 1 c 75 E. 80  
 Auerbach, J. 3 m 65 Broome  
 Autenrieth, G. C. p 216 Seventh  
 Avery, O. T. 4 m 162 2d ave.  
 Axelrad, J. 1 m 105 Henry  
 Ayres, M. S. ph 430 W. 118  
 Babb, L. V. 3 t 1230 Amsterdam ave.  
 Babcock, D. P. 1 s Fanwood, N. J.  
 Babcock, E. B. ph 109 W. 54  
 Babcock, H. H. 3 l 30 W. 44  
 Bach, F. A. 3 c 55 E. 80  
 Bach, M. J. 2 l 11 E. 92  
 Back, L. 2 t 16 N. Arlington ave.,  
 East Orange, N. J.  
 Bacon, D. R. 4 s 430 W. 118  
 Bacon, M. K. 4 b 415 W. 118  
 Baechler, J. 1 m 134 W. 29  
 Baehr, G. 1 c 200 W. 111  
 Baeslack, F. W. p 1990 Madison ave.  
 Bagnasco, J. M. 1 t 27 Weil pl.,  
 Astoria, N. Y.  
 Bailey, C. H. 1 m New Rochelle, N. Y.  
 Bailey, J. F. pl  
 Bailey, M. H. 1 b 92 Fourth ave.  
 Bailey, R. De W. 1 s 77 Boulevard, Summit, N. J.  
 Bailly, E. C. 1 c 914 Crotona pk.,  
 So.  
 Bair, J. H. ph 521 W. 123  
 Baker, E. F. ph 140 E. 71  
 Baker, F. C. pl 65 W. 127

- Baker, G. E. *sp t*  
                     1230 Amsterdam ave.  
 Bakerman, J. J. *2 l* 536 E. 11  
 Bakst, J. *2 m* 42 Pike  
 Balcom, H. *sp t*  
                     1230 Amsterdam ave.  
 Baldwin, A. *ph* 417 W. 118  
 Baldwin, A. M. *pl*  
                     W. Orange, N. J.  
 Baldwin, A. P. *gr i*  
                     431 Riverside drive  
 Baldwin, F. T. *ph* 417 W. 118  
 Baldwin, S. L. *ph* Gregory ave.,  
                     West Orange, N. J.  
 Baldwin, W. S. *4 s* 310 W. 115  
 Ball, C. E. A. *2 m* 153 Valley,  
                     South Orange, N. J.  
 Ball, M. E. *ph* 414 W. 124  
 Ballenberg, M. *2 l* 240 E. 48  
 Ballou, F. W. *4 t* 168 W. 120  
 Bamberger, A. C. *7. 4 t*  
                     Hotel Majestic  
 Bamberger, S. M. *3 s* 449 W. 123  
 Bamman, F. G. *3 l* 557 W. 124  
 Bandler, C. G. *4 m*  
                     165 Lenox ave.  
 Bangs, H. McC. *2 c* 627 W. 115  
 Bangser, A. *1 c* 121 W. 117  
 Banister, R. L. *4 m* 342 W. 58  
 Banks, E. M. *pl* 227 W. 122  
 Banks, H. M. *1 l* 304 Grace  
                     Church, Port Chester, N. Y.  
 Banning, H. *4 c* 17 E. 128  
 Banta, E. M. *ph* 144 St. James  
                     pl., Bklyn.  
 Barker, P. M. *3 m* 303 W. 71  
 Barker, S. R. *4 b*  
                     Irvington, N. Y.  
 Barnaby, J. C. *2 s* 60 W. 104  
 Barnert, C. *4 m* 526 W. 123  
 Barnert, M. *4 s* 526 W. 123  
 Barnes, C. V. *3 t* 21 W. 135  
 Barnes, R. B. *sp s* 316 W. 75  
 Barnes, R. L. *sp s* 85 Willowdale  
                     ave., Montclair, N. J.  
 Barnhisel, W. B. *1 l*  
                     72 Morningside ave.  
 Baron, S. J. *3 l* 141 W. 119  
 Barrett, F. J. *3 m* 1167 Dean,  
                     Bklyn.  
 Barrett, M. F. *p* 19 Elm,  
                     Bloomfield, N. J.  
 Barrett, J. E. *1 l* 408 W. 115  
 Barrett, R. C. *2 l* 415 W. 118  
 Barrick, S. L. *3 c* 121 Vroom,  
                     Jersey City, N. J.  
 Barrows, S. *2 m* 99 Heywood  
                     ave., Orange, N. J.
- Barrows, W. B. *3 c* 20 Central  
                     ave., Tompkinsville, S. I.  
 Barshell, F. B. *3 s* 22 W. 114  
 Barteld, H. C. *1 s* 521 W. 123  
 Bartlett, F. H. *3 m* 123 W. 96  
 Bartlett, L. S. *2 m* 317 W. 56  
 Barton, R. M. *ph* 610 W. 152  
 Bartow, C. W. *3 m* 569 Park ave.  
 Bartrum, W. C. *4 m* 207 W. 56  
 Basel, A. *ph* 68 Seigel, Bklyn.  
 Bashaw, M. *sp b* 343 W. 58  
 Bass, M. H. *1 m* 57 W. 91  
 Bass, R. *sp b* 330 W. 58  
 Bassett, E. W. *3 b* 26 W. 129  
 Batchelor, C. B. *1 c* 318 W. 57  
 Batdorff, I. *7. 4 t*  
                     1230 Amsterdam ave.  
 Bates, A. B. *pl*  
                     Morris High School  
 Bates, G. *1 s* 117 Waverley pl.  
 Bates, K. C. *2 l* 430 W. 118  
 Bateson, C. E. W. *p* 2345 Bway.  
 Battell, H. M. *1 b* 1007 Putnam  
                     ave., Bklyn.  
 Battey, L. B. *4 t* 234 W. 26  
 Bauer, H. O. A. *1 l*  
                     Piermont, N. Y.  
 Bauerdorf, C. R. *1 l*  
                     625 West End ave.  
 Bauernebl, A. J., Jr. *3 s* 430 Eigh-  
                     teenth ave., Newark, N. J.  
 Baugser, A. *1 c* 121 W. 117  
 Baum, H. *3 s* 88 First  
 Baum, P. *2 c* 88 First  
 Baumeister, J. *ph* 402 Amity,  
                     Flushing, N. Y.  
 Baumgard, H. G. *3 m*  
                     125 Manhattan ave.  
 Baxter, H. *2 s* 418 W. 118  
 Bayes, W. R. *2 l* 210 W. 119  
 Bayles, W. H. *2 m* 79 Mahlstedt  
                     pl., New Rochelle, N. Y.  
 Baylis, G. W. *gr t* 155 W. 65  
 Baylis, R. S. *2 s* 567 St. Mark's  
                     ave., Bklyn.  
 Bayne, S. F. *gr t* 407 W. 145  
 Beale, P. *2 l* 419 W. 118  
 Beard, C. A. *pl* 510 W. 124  
 Beard, G. A. *ph* 50 Cambridge  
                     pl., Bklyn.  
 Beardsley, M. A. *3 t*  
                     1230 Amsterdam ave.  
 Beaton, A. A. *4 t* 438 W. 116  
 Beattie, H. M. *1 s* 56 and Bway.  
 Beatty, E. L. *2 l*  
 Beatty, L. O. *p* 235 W. 115  
 Bechert, A. O. *ph* 119 Jefferson,  
                     Bklyn.

Becker, R. C. 2 s 339 E. 68  
*Beckwith, F. A. pl* 46 E. 21  
*Beeckman, F. L. 4 b* 141 W. 104  
*Beekman, H. R. 1 l* 35 W. 17  
*Beers, F. E. 3 b* 174 *Shelton ave., Jamaica, N. Y.*  
*Beha, J. L. 4 c* 65 W. 95  
*Behrman, S. 3 s* 120 E. 3  
*Beifeld, M. M. 4 b* 302 W. 138  
*Belcher, K. F. pl* 8 *Winthrop terrace, E. Orange, N. J.*  
*Belden, M. Van Z. 3 l* 410 West End ave.  
*Bell, A. MacD. 4 m* 117 W. 64  
*Bell, F. E. 3 b* 243 *Madison ave., Flushing, N. Y.*  
*Bell, H. K. 1 c* 243 *Madison ave., Flushing, N. Y.*  
*Beller, W. C. 4 t* 55 E. 112  
*Benchoff, H. J. ph* 1268 Amsterdam ave.  
*Benedict, F. N. 4 s* 509 W. 124  
*Benedict, M. D. 4 t* 1230 Amsterdam ave.  
*Benham, W. L. 3 s* 415 W. 117  
*Benjamin, H. 3 s* 74 and Bway.  
*Bennett, G. G. 3 b* 323 *State, Hackensack, N. J.*  
*Bennett, H. B. pl*  
*Bennett, J. A. 3 m* 162 W. 72  
*Bennett, J. S. 1 l*  
*Benson, C. 2 s* 73 High ave., Nyack, N. Y.  
*Benton, E. gr t* 527 W. 123  
*Benton, N. K. 1 c* 417 W. 117  
*Berg, C. de L. ph* 204 W. 94  
*Berg, W. N. 4 s* 331 E. 88  
*Berger, M. F. ph* 417 W. 118  
*Bergman, H. M. 1 s* 317 E. 57  
*Bergoffen, H. ph* 207 E. 109  
*Berkowitz, L. 1 c* 140 Columbia  
*Berlinicke, H. R. 3 l* 122 W. 137  
*Bernheim, J. B. 2 c* 321 W. 139  
*Bernheim, S. 2 l* 139 E. 95  
*Bernheimer, G. L. 1 b* 35 W. 72  
*Bernkopf, B. M. 1 b* 223 W. 138  
*Bernstein, C. 1 s* 161 Clinton  
*Bernstein, L. P. 3 m* 132 Broome  
*Bernstein, M. 2 m* 710 Sixth  
*Berry, E. S. 3 s* 457 W. 123  
*Berry, J. T. 4 t* 1230 Amsterdam ave.  
*Bertini, A. A. 2 c* 154 Bleecker  
*Beswick, J. C. 3 t* 1293 Amsterdam ave.  
*Betjemann, H. C. 1 c* 230 Third ave.  
*Betowski, P. E. 2 m* 151 W. 61

*Bickelhaupt, B. 2 m* 630 E. 162  
*Biegeleisen, J. Z. 4 m* 1322 *Jef- ferson ave., Bklyn.*  
*Bierman, H. 1 c* 529 E. 82  
*Bigelow, L. S. ph* 1 W. 72  
*Biggin, F. I. 3 b* 533 W. 145  
*Biglow, L. C. 3 s* 742 St. Nicholas ave.  
*Bigongiari, D. ph* 131 Sands, Bklyn.  
*Biklé, J. S. gr t* 527 W. 124  
*Binzel, A. 3 t* 430 W. 118  
*Binzel, C. E. 3 t* 430 W. 118  
*Birdsall, C. A. 2 m* 197 Ege ave., Jersey City, N. J.  
*Birmingham, W. G. 2 l*  
*Birnie, L. G. sp b* Governor's Island  
*Bishop, C. M. 1 s* 419 W. 117  
*Bishop, H. 3 s* 256 W. 94  
*Bishop, L. 4 t* 1230 Amsterdam ave.  
*Bissell, C. Y. 1 s* 25A Zabriskie, Jersey City, N. J.  
*Bissell, Rev. P. St. G. pl* Freeport, L. I.  
*Black, M. F. 4 m* 140 W. 67  
*Black, R. E. 3 m* 465 W. 57  
*Blackburn, L. P. 2 b* 324 W. 58  
*Blagden, C. 1 m* 18 Gramercy pk.  
*Blagden, W. P. sp s* 18 Gramercy pk.  
*Blake, C. D. 3 t* 366 W. 116  
*Blake, C. H., Jr. 4 c* Englewood, N. J.  
*Blake, F. C. p* 231 W. 120  
*Blake, W. L. 2 s* 260 W. 99  
*Blancard, W. 4 m* 328 E. 87  
*Blanchard, E. 4 t* 527 W. 124  
*Blank, M. I. ph* 1525 Madison ave.  
*Blauner, S. 4 m* 134 Rivington  
*Blechman, J. P. 1 c* 77 E. 115  
*Blechman, N. ph* 77 E. 115  
*Bleyer, A. 3 s* 449 E. 57  
*Blickensderfer, C. sp s* 526 W. 114  
*Bloch, H. 3 l* 334 E. 87  
*Bloch, S. F. 2 c* 538 W. 149  
*Bloomfield, A. J. 4 c* 306 W. 115  
*Blum, J. 1 c* 269 E. Bway.  
*Blumberg, S. 1 l* 179 E. 95  
*Blumenstiel, A. 2 c* 108 E. 79  
*Blumenthal, H. A. 3 l* 27 E. 95  
*Board, B. C. 1 m* 316 W. 58  
*Boardman, A. E. ph* 56 S. Bway., Tarrytown, N. Y.  
*Boardman, D. 3 s* 457 W. 123  
*Bockshitzky, B. J. 3 m* 262 E. Bway.  
*Bode, W. A. 2 s* 1855 Seventh ave.



- Boeck, P. A. 1 s 412 West End ave.  
 Boese, W. H. 4 m 702 E. 158  
 Bogue, P. D. 2 c 116 and  
 Riverside dr.  
 Boice, C. L. 3 t 48 W. 128  
 Boice, H. W. 1 m 28 E. 23  
 Boisse, J. 2 c 137 E. 73  
 Boisse, P. S. 1 s 137 E. 73  
 Bolles, F. N. 1 c 503 W. 124  
 Bolles, J. A. 1 l 374 Manhattan ave.  
 Bolton, A. T. 2 s 175 and  
 Boston rd.  
 Bondy, E. L. 1 c 477 Manhattan ave.  
 Bondy, J. 4 m 515 E. 86  
 Bonime, E. 3 m  
 Bonsall, V. F. M. ph 2626 Bway.  
 Bonyng, H. A. 3 m 931 Wash-  
 ington, Hoboken, N. J.  
 Bookman, M. R. 2 m 1248 Fulton ave.  
 Booraem, R. R. 2 l 417 W. 114  
 Boorman, E. S. S. 3 b Fort Washington  
 Booss, F. E. 2 s 143 W. 140  
 Boote, M. L. 1 b 99 Highland ave.,  
 Yonkers, N. Y.  
 Bopp, W. F. 4 m 78 E. 91  
 Bordwell, W. P. 3 l 205 W. 109  
 Borg, E. D. sp b 855 Fifth ave.  
 Borg, E. H. sp b 855 Fifth ave.  
 Borland, G. H. sp b 116 E. 37  
 Borsody, A. 4 s 325 E. 82  
 Borsody, L. 2 s 325 E. 82  
 Boshco, V. sp b 987 Sixth ave.  
 Boss, A. M. 3 b 14 W. 95  
 Boswell, J. A. 2 m 316 W. 58  
 Bosworth, W. H. 1 s 520 W. 123  
 Bottomley, W. L. 3 s 254 W. 132  
 Boulger, M. R. 4 b 53 St. Nicholas ave.  
 Bourke, J. F. 3 m 144 W. 12  
 Bovard, L. L. 3 b 46 Abendroth  
 pl., Port Chester, N. Y.  
 Bovey, J. M. 4 c 316 W. 94  
 Bowden, H. E. S. sp b 332 Prince-  
 ton ave., Jersey City, N. J.  
 Bowie, W. B. 2 s 171 Madison,  
 Bklyn.  
 Bowman, J. F. 4 m 151 Grove,  
 Montclair, N. J.  
 Boxall, A. sp b 8 E. 47  
 Boyd, C. S. 3 m 362 Willis ave.  
 Boyd, V. T. 2 b 40 Perry  
 Boyd, W. B. 3 m 40 Perry  
 Boyd, W. K. pl 509 W. 124  
 Boyer, H. A. 4 t 600 W. 125  
 Boyesen, B. 4 c 116 and  
 Riverside dr.  
 Boyesen, H. H., II. 3 l 614 W. 113  
 Boylan, A. A. ph 186 W. 135  
 Boyle, J. N. 2 c 235 E. 123  
 Boynton, W. H. 2 s Nyack, N. Y.  
 Brace, D. C. 4 c 131 W. 103  
 Brackett, M. M. p 604 W. 115  
 Bradford, E. E. 2 b 415 W. 118  
 Bradley, A. B. A. 2 l 304 W. 83  
 Bradley, C. M. 3 l 440 W. 124  
 Bradley, E. F. 1 c 29 W. 38  
 Bradley, G. R. 2 s 23 W. 68  
 Bradley, R. H. 3 c 187 Lenox ave.  
 Bradley, W. E. F. 3 s 111 W. 86  
 Bradsher, E. L. ph 524 W. 123  
 Brady, A. R. G. 3 t 282 Bay,  
 Stapleton, S. I.  
 Brady, J. E. 3 l 316 W. 115  
 Brady, J. S. 3 m 245 W. 36  
 Brady, T. J., Jr. 3 s 42 W. 75  
 Brancato, P. 2 m 308 W. 44  
 Brand, A. 4 m 168 E. 80  
 Brand, J. 1 b 332 Third ave.  
 Brandau, G. J. 1 c 115 Butler, Bklyn.  
 Brands, C. 2 c 409 Park ave.,  
 Paterson, N. J.  
 Branower, W. 4 m 208 Rivington  
 Braun, J. 3 m 101 Ave. D  
 Brautigam, E. R. 2 b 23 Lincoln,  
 East Orange, N. J.  
 Breed, R. H. 4 m 245 W. 54  
 Brennan, W. J. 1 c 2 W. 75  
 Brewster, A. D. 2 b 529 W. 124  
 Bridgeman, L. W. sp c  
 278 Lockwood, Astoria, N. Y.  
 Briggs, E. E. 4 t 446 W. 124  
 Bright, H. E. pl Madison, N. J.  
 Brill, P. K. 1 s 200 Van Buren,  
 Bklyn.  
 Brinckerhoff, A. M. gr t 6 W. 48  
 Brinckerhoff, M. L. gr t 10 W. 4,  
 Mt. Vernon, N. Y.  
 Brisco, M. A. pl 524 W. 123  
 Brison, M. J. 3 t 2914 Bway.  
 Brittain, A. A. 3 c 1020  
 Bloomfield, Hoboken, N. J.  
 Brodix, C. R. 1 c 431 Riverside dr.  
 Brodix, J. W. sp c 431 Riverside dr.  
 Bronner, G. F. 3 t 1230 Amsterdam ave.  
 Brooks, F. 3 t 335 W. 55  
 Brooks, F. E. ph 417 W. 114  
 Brooks, J. L. gr t 541 W. 124

- Broomall, L. B. p* Port Chester, N. Y.
- Brouse, E. W. 2 l* 593 W. 124
- Brown, A. E. 3 b* 47 Albion pl., Port Richmond, S. I.
- Brown, B. 2 s* 358 W. 123
- Brown, E. D. sp m* 420 Pacific ave., Jersey City, N. J.
- Brown, E. D. 3 l* 14 Morningside ave.
- Brown, F. C. 2 c* 631 W. 148
- Brown, F. de L. 1 s* 242 W. 73
- Brown, H. L. 1 l* 42 W. 72
- Brown, L. 1 l* 646 Sixth
- Brown, M. E. 2 t* 1230 Amsterdam ave.
- Brown, M. F. 2 b* 391 West End ave.
- Brown, O. 1 s* 120 E. 93
- Brown, R. M. 3 m* 64 W. 56
- Brown, S. 1 m* 143 W. 61
- Brown-Serman S. 3 s* 533 W. 124
- Brown, U. D. gr t* 156 W. 80
- Browne, D. H. 3 c* 121 W. 91
- Browne, M. E. 2 b* 1539 Pacific, Bklyn.
- Browne, R. H. sp s* 7 W. 92
- Browne, T. J. 3 t* 50 and Tenth ave.
- Brownscombe, F. J. sp t* 530 W. 123
- Bruce, E. B. 3 l* 415 W. 118
- Bruce, M. 2 c* 410 Van Brunt, Bklyn.
- Bruckman, R. H. 4 t* 1230 Amsterdam ave.
- Brues, C. T. p* 10 E. 33
- Brundage, P. E. 3 m* 1024 Hudson, Hoboken, N. J.
- Bruner, E. T. 3 l* 340 W. 85
- Bruner, H. E. 1 l* 430 W. 118
- Bruning, H. F. 3 m* 318 W. 57
- Brunn, F. M. ph* 430 Grand ave., Bklyn.
- Brush, B. M. 1 t* Huntington, L. I.
- Brush, E. H. f a* 23 W. 34
- Bryant, M. D. 3 m* 195 Lenox ave.
- Bryant, W. S., Jr. 4 c* 412 W. 115
- Buchdahl, M. G. 1 c* 76 W. 113
- Bucher, H. 3 t* 762 E. 62
- Buck, H. G. 4 b* 557 W. 124
- Buckingham, E. 3 b* 632 W. 148
- Bucons, L. 3 m* 1480 Madison ave.
- Budell, A. E. 4 s* 604 W. 114
- Budington, E. G. 2 l* 420 W. 118
- Buell, T. R. 3 s* 413 W. 117
- Bühler, J. S. 3 l* 415 W. 117
- Bulkley, H. D. 4 c* 608 W. 113
- Bulkley, K. 2 c* 531 Madison ave.
- Bullard, R. H. 1 s* 116 and Riverside dr.
- Bulley, G. W. 2 s* 415 W. 118
- Burbank, A. F. 4 t* 1230 Amsterdam ave.
- Burbidge, T. A. 4 s* 111 W. 103
- Burch, T. H., Jr. 3 s* 106 W. 57
- Burchell, D. E. 4 c* 418 W. 124
- Burchenal, E. H. 1 b* 142 W. 104
- Burdette, R. S. 1 s* Cliffside, N. J.
- Burnett, H. L., Jr. 2 c* 7 E. 12
- Burnham, A. C. 2 m* Mt. Vernon, N. Y.
- Burnquist, J. A. A. 2 l* 364 W. 116
- Burns, G. 2 c* 423 W. 117
- Burr, E. T. S. 1 b* Greenwich, Conn.
- Burritt, M. T. ph* Bronxville, N. Y.
- Burrows, E. C. 2 m*
- Burrows, F. W. 3 l* 415 W. 118
- Burrows, W. F. 4 m*
- Burt, A. M. gr t* 419 W. 118
- Burtis, W. E. 4 s* 604 W. 115
- Burton, H. W. ph* Hotel Martha Washington
- Bushong, A. M. 1 b* 442 Ninth, Bklyn.
- Bushong, E. G. 4 b* 430 W. 118
- Bushong, R. G. 1 l* 118th and Amsterdam ave.
- Butler, B. F. 2 l* 430 W. 118
- Butler, E. C. 2 m*
- Butler, F. L. 4 t* Orange, N. J.
- Butler, G. H., Jr. 1 l* 964 5th ave.
- Butler, H. A. 4 c* 2 W. 94
- Butler, L. C. 4 t* 1268 Amsterdam ave.
- Butterfield, A. D. p* 151 W. 105
- Butterfield, W. H. 3 s* 369 W. 120
- Buttrick, P. A. 2 c* 417 W. 117
- Butts, E. 4 b* 518 Hudson, Hoboken, N. J.
- Buxton, G. F. 4 t* 526 W. 123
- Byrne, M. C. 3 b* 338 Decatur, Bklyn.
- Cadmus, M. E. sp b* 330 Clinton ave., Newark, N. J.
- Cahen, E. J. 4 b* 353 Central pk., W.
- Cahn, A. G. sp b* 115 W. 131
- Caldwell, A. B. 3 t* 604 W. 115
- Calhoun, E. S. 3 b* 201 W. 100
- Calhoun, M. E. sp b* 245 W. 104
- Callaghan, W. A. 1 m* 113 W. 49
- Callahan, G. J. 2 l* 227 W. 116
- Cameron, S. sp b* 239 W. 136

- Camp, A. R. 4 s 311 W. 104  
 Campbell, C. E. 1 b 2309 Seventh ave.  
 Campbell, C. L. 2 s 415 W. 117  
 Campbell, F. 4 b 409 W. Front,  
 Plainfield, N. J.  
 Campbell, H. G. ph 527 W. 123  
 Campbell, J. ph Kingsbridge, N. Y.  
 Campbell, R. 4 s 606 W. 115  
 Campbell, S. 4 s 30 W. 44  
 Cann, B. gr t 528 W. 123  
 Cannon, G. L. 1 b Clay ave.,  
 near 175  
 Cannon, H. G. 2 s 438 W. 116  
 Canto, Y. H. 2 m 452 W. 23  
 Cantrell, L. M. 1 l  
 1293 Amsterdam ave.  
 Caplan, E. N. ph 30 Ridge  
 Caples, Mrs. B. H. 4 b 110 W. 104  
 Caponigre, J. F. 2 l 159 E. 74  
 Carbo, L. A. 4 s 224 W. 139  
 Carbone, M. 1 s 240 Fifth ave.  
 Cardeza, J. M. sp m  
 Cardozo, M. H., Jr. 3 l 45 E. 65  
 Carlebach, W. M. 2 s 136 W. 86  
 Carleton, R. A. W. 4 s  
 Edgewater, N. J.  
 Carll, L. A. ph Whitestone, N. Y.  
 Carlson, F. pl 346 W. 18  
 Carlsson, C. P. 4 c 211 W. 104  
 Caroline, H. 3 c 271 Madison  
 Carpenter, H. N. 2 s 410 W. 115  
 Carpenter, L. J. 2 b  
 Port Chester, N. Y.  
 Carpenter, M. A. gr t  
 1230 Amsterdam ave.  
 Carpenter, W. M. 1 c 253 W. 100  
 Carpenter, W. S. 4 c 410 W. 115  
 Carpentier, M. A. ph 141 E. 56  
 Carr, H. C., Jr. 1 c 116 and  
 Seventh ave.  
 Carrington, W. 3 s 310 W. 115  
 Carroll, A. 1 b 1230 Amsterdam ave.  
 Carroll, A. sp l 9 W. 38  
 Carstensen, G. A. ph 252 and  
 Riverdale ave.  
 Carter, A. E. 4 s 557 W. 124  
 Carter, D. S. 1 s 130 E. 24  
 Carter, J. P. 2 l 130 E. 24  
 Carter, R. W. 4 m 328 W. 56  
 Cartmell, T. M. 1 m 38 E. 22  
 Cartwright, L. R. 2 l 507 W. 112  
 Casamajor, L. 2 m 372 Greene  
 ave., Bklyn.  
 Case, A. H. 3 s 525 W. 123  
 Casper, J. 2 m 363 W. 56  
 Cassebeer, A. F. 1 m 123 W. 63  
 Cassebeer, E. W. 1 s 205 W. 70  
 Casserly, F. P. 2 s 69 Irving pl.  
 Cassety, L. M. 4 t 430 W. 118  
 Caswell, W. L. 2 c  
 9 Arlington pl., Bklyn.  
 Cathcart, G. L. 3 b  
 1230 Amsterdam ave.  
 Catherinet, J. p 114 W. 109  
 Catron, J. W. 3 s 413 W. 117  
 Cauch, F. R. 4 t 318 W. 121  
 Cauchois, R. W. 1 s 458 W. 144  
 Caulfield, J. J. pl Woodycrest  
 ave., Highbridge  
 Cazin, A. 4 t 1108 Bloomfield,  
 Hoboken, N. J.  
 Cecil, J. K. ph 700 Park ave.  
 Celler, A. A. 1 s 723 E. 141  
 Chadwell, E. W. 1 b 417 W. 118  
 Chaffee, R. N. 3 l 421 W. 117  
 Chamberlain, A. R. 3 m 45 W. 32  
 Chamberlain, R. ph 86 Morton,  
 Bklyn.  
 Chamberlin, M. B., Jr. 1 l  
 1302 Madison ave.  
 Chambers, C. 3 l 1869 Seventh  
 ave.  
 Chambers, F. W. 2 c 315 W. 58  
 Chambers, J. S. D. 3 m  
 Carnegie Hall  
 Chandler, H. K. 3 s 29 W. 15  
 Chapin, H. E. 1 c Hamilton pk.,  
 New Brighton, N. Y.  
 Chapman, E. A. 2 b 3635 Boule-  
 vard, Jersey City, N. J.  
 Chapman, E. D. 2 t 37 Clinton  
 ave., Jamaica, N. Y.  
 Chatfield, H. t 19 W. 106  
 Chedsey, M. C. 4 t Park Hill,  
 Yonkers, N. Y.  
 Chelimer, H. J. 1 c 208 E. 105  
 Cheney, G. W. 3 t 1236 Johnson  
 ave., Bklyn.  
 Cherry, M. J., Jr. 1 s 244 W. 71  
 Cherry, T. H. 4 m 237 W. 123  
 Chessman, F. N. 4 m 31 W. 61  
 Chickering, E. C. ph 16 Clinton  
 ave., Jamaica, N. Y.  
 Childs, J. H. 3 m 339 Totowa  
 ave., Paterson, N. J.  
 Chipperfield, F. 2 b 606 W. 115  
 Church, E. C. 4 s 4 E. 130  
 Church, J. A., Jr. 2 s  
 697 West End ave.  
 Church, L. C. 4 s 114 W. 86  
 Church, M. E. 3 t 187 High,  
 Passaic, N. J.  
 Churchill, L. T. 2 s Dunellen, N. J.  
 Churchill, M. B. ph 504 W. 112  
 Claffy, M. L. C. 4 b  
 27 Tompkins pl., Bklyn.

- Clapp, L. R. 1 s 415 W. 117  
 Clare, M. E. 3 t 471 Manhattan ave.  
 Clare, T. A. G. 4 t 471 Manhattan ave.  
 Clark, A. H. pl 616 W. 113  
 Clarke, A. M. 4 t 527 W. 124  
 Clark, F. M. sp s 19 W. 126  
 Clark, F. X. 4 t 290 Hudson  
 Clark, J. R., Jr. 1 l 446 W. 124  
 Clark, L. H. 1 c 109 E. 114  
 Clarke, L. S. gr t 301 W. 112  
 Clark, M. A. 4 t 1230 Amsterdam ave.  
 Clark, T. F. 3 c 301 W. 114  
 Clark, W. I., Jr. 4 m 127 E. 30  
 Clark, W. M. 4 s 40 Morningside ave.  
 Clarke, L. V. 3 m 9 Columbus ave.  
 Clarke, M. B. 3 t 412 W. 124  
 Clarkson, J. G. 2 s 684 E. 144  
 Class, F. M. 1 m 3 E. 73  
 Cleghorn, C. D. 4 m 273 W. 70  
 Cline, C. sp t 606 W. 115  
 Close, E. B. 1 l 11 Cedar pl.,  
 Yonkers, N. Y.  
 Gloss, R. E. 4 t 417 W. 118  
 Clowes, H. C. 4 t 131 W. 13  
 Clowes, M. S. sp t 510 Manhattan ave.  
 Clune, M. T. 1 s 397 Lexington ave.  
 Cobb, E. S. ph 41 E. 69  
 Cobb, P. ph 1161 Amsterdam ave.  
 Cockrell, E. R. pl 1293 Amsterdam ave.  
 Coddington, E. M. p 24 W. 58  
 Celos, J. A. 4 s 417 W. 117  
 Coerr, F. D. H. 4 m 252 Fifth ave.  
 Cohen, A. 1 b 116 W. 84  
 Cohen, A. B. 1 c 283 Osborn,  
 Bklyn.  
 Cohen, A. J. 2 l 150 W. 87  
 Cohen, E. 2 m 60 E. 7  
 Cohen, H. 3 m 1524 Washington ave.  
 Cohen, H. L. ph 9 W. 91  
 Cohen, H. N. 3 b 177 E. 93  
 Cohen, L. p 114 E. 113  
 Cohen, L. 3 m 1613 Second ave.  
 Cohen, L. J. p 1867 Seventh ave.  
 Cohen, M. R. ph 58 E. 106  
 Cohen, N. 1 m 357 Grand  
 Cohen, N. M. 3 c 43 W. 87  
 Cohn, A. E. 4 m 64 E. 66  
 Cohn, R. M. 1 m 609 High,  
 Newark, N. J.  
 Colburn, H. S. gr t 318 W. 57  
 Colby, S. C. 1 b 2013 Fifth ave.  
 Cole, A. C. ph 408 W. 115  
 Cole, E. 1 b Sea Cliff, L. I.  
 Cole, E. C. 1 b 371 W. 119  
 Cole, F. C. 1 l 313 W. 112  
 Cole, W. H. sp m 143 Lexington  
 ave.  
 Coleman, A. M. sp t 1230 Amsterdam ave.  
 Coleman, C. 2 t 1230 Amsterdam ave.  
 Colety, F. 3 l 139 W. 97  
 Colie, D. 2 s 101 W. 73  
 Colie, E. M. 3 m 101 W. 73  
 Collier, J. p 414 W. 118  
 Collins, C. ph 317 W. 119  
 Collins, E. T. 1 c Tarrytown, N. Y.  
 Collins, F. W. 4 s 373 W. 123  
 Collins, K. B. 1 c 261 W. 85  
 Collis, C. 3 l 1055 Fifth ave.  
 Colloque, O. ph 306 W. 113  
 Collyer, H. L. 2 l 109 E. 54  
 Colwell, R. H. 3 t 1230 Amsterdam ave.  
 Comfort, M. R. 3 t 110 Hicks,  
 Bklyn.  
 Comin, R. pl Richmond Hill, L. I.  
 Commiskey, L. J. J. 4 m 96 Lincoln pl., Bklyn.  
 Compton, A. D. ph 40 W. 126  
 Compton, M. G. 4 b 2787 Bway.  
 Comstock, G. F. 1 c 119 W. 86  
 Conant, M. P. ph 419 W. 118  
 Conant, S. H. pl 526 W. 114  
 Condit, J. P. 2 b E. Orange, N. J.  
 Condon, M. J., Jr. sp s 111 Fifth ave.  
 Cone, N. K. 3 l 505 W. 124  
 Conger, D. L. 3 t 1230 Amsterdam ave.  
 Conley, D. S. 2 m 151 W. 79  
 Conlon, P. J. 3 m 9 Columbus ave.  
 Connell, W. H., Jr. 3 s 24th and Bway.  
 Conner, M. E. 4 t 1230 Amsterdam ave.  
 Conover, G. M. 3 b 137 W. 127  
 Conried, R. 1 c 65 W. 71  
 Constant, C. L., Jr. 4 s 2139 Seventh ave.  
 Conty, R. J. 1 c 337 Third,  
 Weehawken, N. J.  
 Conwell, E. V. 2 l 521 W. 123  
 Cook, E. 4 m 135 E. 37  
 Cook, F. S. 3 s 501 W. 120



- Cook, T. F. 4 s 154 E. 37  
 Cook, W., Jr. 1 l 135 E. 37  
 Cooke, R. A. 4 m 129 W. 61  
 Cooley, H. W. 3 b 249 W. 14  
 Cooney, G. 4 t 153 Madison ave.,  
 Flushing, N. Y.  
 Cooper, C. C. 1 l 1260 Amsterdam ave.  
 Cooper, E. M. 3 s 57 Convent  
 ave.  
 Cooper, F. L. 3 c 310 W. 115  
 Cooper, I. M. ph 1161 Amsterdam ave.  
 Coray, G. pl 440 W. 124  
 Corbet, W. W. 4 s 51 W. 106  
 Corcoran, D. 3 m 9 Columbus ave.  
 Cordner, R. 3 m 346 W. 57  
 Corn, B. 2 c 23 E. 128  
 Corn, P. ph 1052 Lexington ave.  
 Cornell, C. F. 2 c 33 Alsop,  
 Jamaica, N. Y.  
 Cornell, M. L. 3 s 29 E. 37  
 Corscaden, J. A. 2 m 300 W. 58  
 Cosgrove, J. D. 2 s 64 Rush,  
 Bklyn.  
 Costello, T. J. 2 s 355 W. 56  
 Costikyan, A. sp b 87 Arlington  
 ave., E. Orange, N. J.  
 Cotter, M. A. 3 t 1230 Amsterdam ave.  
 Cottle, G. F. 3 m 1 Gramercy pk.  
 Coughlan, J. J. 3 l 201 E. 31  
 Coulling, M. W. 3 t 600 W. 125  
 Coursault, J. H. gr t 527 W. 124  
 Cowan, J. A. 4 m 3 Grove  
 Cowen, A. R. 1 c 39 E. 74  
 Cowen, H. G. 2 l 39 E. 74  
 Cox, H. N. 4 s 683 Madison,  
 Bklyn.  
 Cox, M. V. 4 t 600 W. 125  
 Craig, A. H. 3 t 606 W. 115  
 Craig, H. A. 4 m 235 W. 54  
 Craine, W. R. pl 415 W. 118  
 Cram, G. La F. ph 215 W. 120  
 Cramp, W. C. 4 m  
 Crane, T. 2 s 35 W. 47  
 Crane, W. A. ph 18 Prospect,  
 Stapleton, S. I.  
 Crawford, A. M. 3 t 505 W. 124  
 Crawford, L. W., Jr. ph 457 W. 123  
 Crawford, R. McL. sp t 505 W. 124  
 Crawford, W. K. 2 l 903 West End ave.  
 Creevey, W. S. 2 l 316 Greene ave., Bklyn.  
 Crocker, M. S. sp b 318 W. 84  
 Crohn, B. B. 1 m 76 E. 92  
 Crone, H. 1 l 152 E. 89  
 Cronin, E. J. 3 m  
 Crosby, W. 1 c 38 Trinity pl.,  
 New Rochelle, N. Y.  
 Cross, J. B. 1 m 415 W. 57  
 Crowell, F. S. 3 s 438 W. 116  
 Crowell, J. W. pl 188 Franklin  
 pl., Flushing, N. Y.  
 Crudden, F. sp m 26 Dominick  
 Cruikshank, L. S. 3 t 1230 Amsterdam ave.  
 Cummings, W. L. 2 l 38 E. 22  
 Curlett, A. E. 4 s 902 West End ave.  
 Curtin, M. H. p 35 W. 36  
 Curtis, G. B. 2 s 310 W. 115  
 Curtis, H. D. 3 c 200 W. 99  
 Curtis, M. W. 1 t 457 W. 123  
 Curtis, N. C. 4 s 463 Manhattan ave.  
 Curtis, R. W. sp c 132 W. 90  
 Curtis, S. T. 4 b 2787 Bway.  
 Cushing, M. G. ph 419 W. 118  
 Cussler, E. 4 m 41 W. 60  
 Custer, G. A. 1 l 525 W. 123  
 Cutler, C. C. 2 l 557 W. 124  
 Cutler, H. D. 1 l 419 W. 118  
 Cutler, S. L. ph 471 E. 177  
 Cutting, F. L. 1 t 154 Kent, Bklyn.  
 Daly, E. T. ph Hudson ter.,  
 Yonkers, N. Y.  
 Daly, W. A. 3 s Hudson ter.,  
 Yonkers, N. Y.  
 Damon, L. A. sp t 1293 Amsterdam ave.  
 Dana, C. A. 2 l 55 W. 51  
 Dana, R. H., Jr. 3 s 55 W. 51  
 Dantziger, C. T. 3 s 618 St. Nicholas ave.  
 Dargeon, M. J. 4 c 111 E. 25  
 Darling, N. O. 2 b 410 W. 115  
 Darst, O. C. sp s 500 W. 123  
 Dattelbaum, M. J. 4 m 362 Sackman, Bklyn.  
 David, C. T. 3 m 31 First  
 Davidoff, H. ph 22 E. 109  
 Davidson, E. W. pl 124 Centre  
 ave., New Rochelle, N. Y.  
 Davidson, I. 4 m 79 W. 118  
 Davies, O. P. 1 m  
 Davis, A. ph 133 Monroe, Bklyn.  
 Davis, A. pl 1230 Amsterdam ave.  
 Davis, A. L. 2 l 152 E. 94  
 Davis, A. M. 4 c 98 Madison  
 Davis, E. L. 2 l 57 New,  
 Orange, N. J.  
 Davis, J. A. sp c 420 W. 160

Davis, M. C. *ph* 219 W. 71  
 Davis, M. M., Jr. *pl* 791 West End ave.  
 Davis, N. E. *pl* 94 Watchung  
 ave., W. Orange, N. J.  
 Davis, O. P. *ph* 1230 Amsterdam ave.  
 Davis, R. W. *sp s* 419 W. 118  
 Davis, W. H. *ph* N. Y.  
 Zoological Park.  
 Day, E. 3 *b* 1146 Tinton ave.  
 Day, H. C. *sp c* 420 Madison ave.  
 Day, H. L. 2 *m* 333 W. 58  
 Day, M. M. 3 *c* 247 W. 54  
 Day, S. M. 4 *s* 18 W. 19  
 Deacon, H. G. 2 *t* 108 E. 86  
 Dean, E. C. 4 *s* 419 W. 118  
 Dean, M. E. 2 *t* Hastings-on-  
 Hudson, N. Y.  
 Dean, P. R. *gr t* 174 W. 102  
 Dean, S. E. 3 *t* 1230 Amsterdam ave.  
 Dearborn, J. M. *gr s* 557 W. 124  
 Dearborn, W. F. *gr t* 557 W. 124  
 de Beaumont, V. E. *ph* 723 Columbus ave.  
 de Boer, J. M. 1 *t* 153 Riverdale  
 ave., Yonkers, N. Y.  
 Decker, C. H. 3 *s* 526 W. 123  
 Decker, C. T. 2 *m* 205 Elm,  
 Westfield, N. J.  
 Decker, H. R. 1 *m* 260 W. 54  
 Decker, W. C. *sp c* 3 W. 129  
 Dehuff, A. I. 1 *s* 420 W. 118  
 Deimel, R. F. *p* 209 W. 97  
 Deixel, A. 2 *c* 47 Barclay, Newark, N. J.  
 De Klyn, C. C. 3 *m* 430 W. 118  
 De Koven, B. 4 *m* 678 E. 168  
 de Laguna, F. *ph* 417 W. 118  
 de Lara, F. B. 2 *s* 305 W. 130  
 de la Torre, M. 3 *s* 201 W. 120  
 del Rio, I. R. 2 *s* 352 W. 117  
 Demarest, G. 3 *s* 244 W. 138  
 Demarest, I. C. 1 *c* 54 Essex,  
 Hackensack, N. J.  
 Dement, G. *sp b* 108 Carnegie  
 ave., E. Orange, N. J.  
 Demeritt, H. S. 4 *s* New Canaan, Conn.  
 Demorest, L. 2 *c* 557 W. 124  
 de Neergaard, G. *sp b* 229 E. 21  
 Denison, G., II. 4 *s* or Division ave., Bklyn.  
 Denno, W. J. 1 *m* 338 W. 56  
 Denton, M. 4 *b* 271 E. 32,  
 Paterson, N. J.

DeNyse, R. V. N. 3 *l* 97 Division ave., Bklyn.  
 Denzer, B. S. 2 *c* 18 Sickles ave.,  
 New Rochelle, N. Y.  
 Derbshire, C. E. *sp t* 1230 Amsterdam ave.  
 Derby, R. 1 *m* 3 E. 40  
 Derleth, W. T. 3 *s* 674 E. 135  
 Derow, D. 3 *m* 136 Rivington  
 de Sallier du Pin, R. A. 2 *s* 500 W. 123  
 Despard, C. S., Jr. 2 *s* 414 W. 118  
 Detwiller, A. K. 2 *m* 332 W. 56  
 Deutsch, M. 2 *s* 79 E. 113  
 Devoe, W. B. 2 *c* 321 W. 103  
 Deweese, F. M. 2 *l* 1294 Columbus ave.  
 Diamond, F. J. *sp t* 46 S. 11th  
 ave., Mt. Vernon, N. Y.  
 Dickerson, L. R. 1 *s*  
 Dickey, F. A. 1 *c* 56 Lenox ave.  
 Dickinson, F. McL. 3 *m* 318 W. 58  
 Dickinson, H. C. 2 *l* Union Club  
 Dickler, N. N. 2 *c* 260 Watkins, Bklyn.  
 Dickson, C. F. 1 *s* 358 W. 123  
 Dieffenbach, R. H. 4 *m* 340 W. 55  
 Diehl, F. *ph* 700 Park ave.  
 Dier, A. A. 2 *s* 414 W. 118  
 Dietz, E. A. 3 *b* 136 E. 43  
 Dilworth, J. F. *pl* 28 Lincoln,  
 Jersey City, N. J.  
 Dingman, J. C. 4 *m* 41 W. 60  
 Dingman, T. A. 4 *m* 41 W. 60  
 Dionne, G. A. L. *ph* 1161 Amsterdam ave.  
 Disbrow, J. 1 *b* 74 Convent ave.  
 Dixon, B. F., Jr. 1 *l* 526 W. 123  
 Dodd, S. W. 3 *m* 101 and Bway.  
 Dodge, S. V. V. 3 *t* 1230 Amsterdam ave.  
 Dodman, A. C., Jr. 1 *s* 235 W. 108  
 Dolgenas, J. A. *ph* 531 W. 123  
 Dollin, E. N. 2 *l* 1377 Lexington ave.  
 Dolphin, B. E. 4 *m* 415 W. 118  
 Donaldson, I. L. 1 *t* 309 W. 85  
 Donaldson, S. M. 3 *t* 21 W. 135  
 Donigan, E. A. 2 *b* 126 Archer  
 ave., Mt. Vernon, N. Y.  
 Donnellan, G. L. 3 *l* 883 Sixth ave.  
 Donnelly, M. K. 3 *b* 412 W. 149  
 Donnelly, T. F. 1 *s* 412 W. 149  
 Donnocker, C. F. 1 *m* Huntington, L. I.  
 Donohue, T. J. *pl* 1094 Franklin ave.  
 Donovan, P. W. 3 *s* 503 W. 124

- Donovan, W. J. 3 c  
 Donvan, B. F. 3 l 250 W. 128  
 Doon, C. W. 2 s 704 E. 138  
 Dorr, G. H. 3 l 262 W. 107  
 Dorrian, C. I. 3 b 166 W. 126  
 Dorsett, L. A. 2 b 3 Kenilworth  
 pl., Jamaica, N. Y.  
 Dorsey, J. J. 1 m 59 W. 62  
 Dottenheim, H. S. 3 l  
 1543 St. Nicholas ave.  
 Doty, A. 1 s 69 Locust Hill ave.,  
 Yonkers, N. Y.  
 Doty, H. S. 3 s 69 Locust Hill  
 ave., Yonkers, N. Y.  
 Doty, K. S. 4 b 553 W. 141  
 Doty, O. K. 1 s 553 W. 141  
 Doughty, J. B. 2 s  
 73 Manhattan ave.  
 Douglas, I. R. 3 t 1183 Third ave.  
 Douglass, E. A. sp t  
 1230 Amsterdam Ave.  
 Dowd, W. J. 1 s 23 Newton,  
 Newark, N. J.  
 Downs, F. G. 2 c 75 Fairview  
 ave., Jersey City, N. J.  
 Dox, R. W. 1 c 305 W. 18  
 Doyle, C. A. sp l 416 W. 118  
 Drake, A. D. ph 1446 57, Bklyn.  
 Draper, A. O. 3 b 18 W. 8  
 Draper, G. 2 m 18 W. 8  
 Drennen, W. E. 2 m 318 W. 57  
 Driscoll, G. C. 3 m 105 W. 64  
 Droge, H. G. 3 s Flushing, N. Y.  
 Drowne, G. L. ph 41 E. 69  
 Drubitz, M. 1 c 73 E. 120  
 Druding, F. D. 2 s 219 W. 106  
 Dryfoos, W. S. ph  
 17 Lexington ave.  
 Dublin, L. I. p 320 W. 117  
 Du Bois, E. F. 2 m 317 W. 56  
 du Bois, E. H. ph  
 1230 Amsterdam ave.  
 Duckett, W. J. 4 m 341 W. 58  
 Duden, F. H. 2 s  
 Bronxville, N. Y.  
 Duden, W. 4 s Bronxville, N. Y.  
 Dudley, B. W. 4 m 127 W. 61  
 Duell, W. C. 2 l 310 W. 115  
 Duggan, A. J. 1 t 216 Jamaica  
 ave., L. I. City  
 Dumas, J. P. 3 l  
 902 West End ave.  
 Duncan, O. B. 4 m 202 Carroll,  
 Paterson, N. J.  
 Duncan, W. H., Jr. sp c  
 108 Woodruff ave., Bklyn.  
 Duncombe, F. H. 2 s 45 First  
 ave., Mt. Vernon, N. Y.  
 Dunham, F. G. 2 l 521 W. 123  
 Dunlop, W. C. 2 s 27 Belmont  
 ter., Yonkers, N. Y.  
 Dunn, A. ph 700 Park ave.  
 Dunn, D. H. sp s 74 and Bway.  
 Dunn, J. P. ph 1111 Dawson  
 Dunney, J. A. ph St. Joseph's  
 Seminary, Yonkers, N. Y.  
 Dunning, M. A. 4 t  
 1230 Amsterdam ave.  
 Durant, A. L. 3 b  
 603 West End ave.  
 Durham, K. 2 l 404 W. 145  
 Dusel, W. J. 1 s  
 32 Morningside ave.  
 Dutcher, M. 4 t  
 525 Manhattan ave.  
 Dwight, K. 3 m 31 Mt. Morris  
 pk., W.  
 Dwight, M. B. sp t 76 William  
 Dworsky, H. P. 2 l 239 E. 60  
 Dyer, H. P. 3 s 627 W. 115  
 Earle, E. W. 2 l  
 81 Manhattan ave.  
 Earle, W. P. S. 4 c  
 75 and Eighth ave.  
 Earley, M. J., Jr. 3 l  
 68 Convent ave.  
 Easthurd, J. ph 530 W. 123  
 Eastman, C. C. pl  
 100 Hamilton pl.  
 Eastman, H. W. 2 c  
 Roslyn, N. Y.  
 Eastman, L. P. 2 b 4 E. 70  
 Eastmond, C. 4 m 199 Madison,  
 Bklyn.  
 Easton, K. 2 c Hotel St.  
 Andrew, 72 and Bway.  
 Eaton, A. B. pl 130 W. 109  
 Eaton, K. E. gr t  
 1230 Amsterdam ave.  
 Ebling, R. W. 2 s  
 935 Prospect ave.  
 Echeverría, F. J. 2 c 141 W. 73  
 Eckel, G. E. sp b 429 W. 162  
 Eckert, W. 3 c Strawberry Hill,  
 Stamford, Conn.  
 Eckstein, H. J. 2 c 36 W. 89  
 Eddingfield, F. T. 2 s 64 W. 96  
 Edebohls, A. J. 2 s 59 W. 49  
 Edelstein, E. A. 1 c  
 1433 Madison ave.  
 Edgar, J. A. 2 m 71 Congress,  
 Jersey City, N. J.  
 Edler, F. E. 1 b Woodside, L. I.  
 Eggers, C. F. A. 1 m  
 55 Greenpoint ave., Bklyn.

Egleston, J. D. 4 b 501 W. 120  
 Egner, A. F. pl 1015 Broad,  
 Newark, N. J.  
 Ehbets, C. E. 3 t 1230 Amsterdam ave.  
 Ehrhardt, C. F. 2 m 706 E. 137  
 Ehrich, E. 3 b 54 W. 75  
 Eichhorn, H. 4 m 238 E. 7  
 Eimer, A. O. 2 c 30 Irving pl.  
 Einstein, G. A. sp c 45 E. 72  
 Eisenberg, A. D. 2 m 386 E. 10  
 Eldredge, G. S. sp s 44 W. 83  
 Elgar, H. B. 4 c 275 W. 132  
 Elgas, H. M. 4 c 417 W. 117  
 Elkus, S. A. ph 302 W. 87  
 Elliot, F. C. 1 t 66 E. 77  
 Elliott, E. C. gr t 143 W. 122  
 Ellis, G. A. 4 c  
 Elmendorf, W. Ten E. 2 m 46 W. 93  
 Elsberg, A. M. 3 c 58 and Park ave.  
 Elsing, M. J. 1 s 430 W. 118  
 Elsworth, H. J. 4 c 604 W. 114  
 Elting, H. S. 4 b 237 N. Bway,  
 Yonkers, N. Y.  
 Embury, L. B. 4 b Englewood,  
 N. J.  
 Emerson, H. T. sp b 81 Madison ave.  
 Emory, G. B. 3 m 59 W. 62  
 Endelman, E. ph 130 Madison  
 Engelbrekt, A. C. 1 t 31 Elm,  
 New Rochelle, N. Y.  
 Engelson, J. E. 2 m 1968 Hughes ave.  
 Enos, H. C. 2 s 354 W. 120  
 Enright, E. M. 4 b 1230 Amsterdam ave.  
 Erb, W. M. 3 l 72 Morningside ave.  
 Erdal, O. W. sp s 315 W. 97  
 Erdwurm, E. 3 t 108 Orient ave.,  
 Jersey City, N. J.  
 Erler, E. W. 1 m 336 Sussex  
 ave., Newark, N. J.  
 Ernest, R. H. 3 s  
 Ernst, A. E. 1 b 1368 Prospect  
 ave.  
 Ernst, A. O. 3 l 226 W. 113  
 Ernst, M. 2 b 519 W. 123  
 Eron, J. E. ph 197 E. Bway.  
 Erskine, H. 4 b 307 W. 93  
 Erstein, R. 2 b 43 E. 63  
 Eriz, M. B. sp b 112 and Bway.  
 Erving, E. C. sp b 17 W. 50  
 Escoto, C. J. 3 s 127 E. 25  
 Eshbaugh, M. 3 t 504 W. 112  
 Espinosa, A. 1 m 452 W. 23

Esselborn, C. A. 3 s 1915 Anthony ave.  
 Essex, W. L. 2 c 517 Manhattan ave.  
 Evans, A. P. 4 m 371 Sterling  
 pl., Bklyn.  
 Evans, A. W. 2 s 614 W. 113  
 Evans, C. L. sp b Richmond Hill, N. Y.  
 Evans, E. G. 2 b 418 W. 160  
 Evans, J. H. 2 c 21 Walnut  
 Crescent, Montclair, N. J.  
 Evans, M. 3 t 542 W. 113  
 Evans, S. I. 3 t 430 W. 118  
 Eytinge, E. O. J. 4 m 10 W. 65  
 Faber, G. W. 1 m 92 Mercer ave.,  
 Plainfield, N. J.  
 Fackenthal, F. D. 2 c 93 Rod-  
 ney, Bklyn.  
 Fahs, Mrs. S. L. gr t 522 W. 123  
 Fair, M. N. sp t 1230 Amsterdam ave.  
 Fair, R. M. sp s 11 Horton ave.,  
 New Rochelle, N. Y.  
 Fairchild, R. D. 2 b 557 W. 124  
 Fairchild, R. P. 1 m 557 W. 124  
 Fales, J. T. sp t 3133 Bway.  
 Falion, G. M. 3 c 329 Pacific, Bklyn.  
 Falk, M. J. 4 s 16 E. 81  
 Fanning, R. sp b 221 W. 123  
 Farley, E. V. 3 l 329 Macon,  
 Bklyn.  
 Farley, F. C. sp s Buckingham  
 Hotel, Fifth Ave. and 50  
 Farmer, M. B. 3 b 21 Davis ave.,  
 New Rochelle, N. Y.  
 Farrell, J. R. 1 m 447 E. 149  
 Farrelly, G. M. 3 b 224 W. 137  
 Farrelly, S. V. 2 s 47 W. 68  
 Farrer, H. E. 1 s 205 Sunnyside  
 ave., Bklyn.  
 Fasola, J. B. sp l 204 E. 109  
 Fassett, E. C. 4 m 354 W. 56  
 Federici, G. sp m 152 W. 38  
 Fedter, B. ph 1710 Lexington ave.  
 Feigenbaum, C. 4 t 747 E. 5  
 Felberbaum, D. 2 m 168 E. 103  
 Feld, M. ph 115 Essex  
 Feldman, D. D. p 509 Throop ave.,  
 Bklyn.  
 Feldmann, L. M. 2 s 541 W. 124  
 Fenollosa, E. F. ph  
 Fenton, J. W. 3 t 1939 Madison ave.  
 Fenton, W. H. sp s 544 W. 113  
 Ferenczy, A. 2 s 80 E. 116  
 Ferlow, F. A. 3 t 418 W. 118



- Ferrari, R. A. 2 c 415 E. 115  
 Ferreira, LeR. E. 2 c 30 Gould  
 ave., Newark, N. J.  
 Ferris, M. D. 3 c 676 West End ave.  
 Ferris, R. H. ph 41 E. 69  
 Fettretch, C. S. 2 s 335 W. 88  
*Fettretch, E. B.* 3 b 335 W. 88  
 Fiaschi, P. 3 m 509 Fifth ave.  
 Fichter, L. 4 m 306 E. 119  
 Field, F. E. pl 41 E. 69  
 Fies, M. H. 4 s 208 W. 141  
 Filfuss, N. gr t 79 Willett  
 Finch, J. K. 2 s 700 West End ave.  
 Finch, J. M. 1 s 78 Centre ave.,  
 New Rochelle, N. Y.  
*Finch, R. A.* sp b 243 W. 56  
 Finegan, J. E. 2 l 541 W. 124  
 Fink, M. 2 m 1641 Madison ave.  
 Finkel, I. H. 2 s 25 E. 99  
 Finkelstein, H. 4 m 224 E. 50  
 Finney, C. A. 2 l 270 W. 115  
 Finnigan, J. J. ph 157 W. 63  
 Fischer, E. E. 1 c 125 First  
 Fischer, H. A. 2 m 133 W. 122  
*Fischer, H. M.* 4 b 129 W. 70  
 Fish, E. B. 3 t 237 E. 104  
 Fish, S. C. 4 c 67 Stuyvesant ave., Bklyn.  
 Fisher, A. F. 3 b 606 W. 113  
 Fisher, C. F. 2 m 242 Osborn,  
 Bklyn.  
 Fisher, H. A. 3 s 419 W. 117  
 Fisher, J. R. 4 c 419 W. 117  
 Fisher, L. M. 3 t 41 E. 70  
 Fisher, T. E. 3 s 606 W. 113  
 Fitch, E. H. 3 t 273 W. 84  
 Flaks, A. 4 m 120 Monroe ave.  
 Flanders, J. A. 2 s 414 W. 118  
 Flanigan, W. A. 1 c 133 W. 86  
 Flatto, I. 4 m 152 E. 94  
 Fleissner, G. L. 1 s 246 E. 4  
 Fleming, W. B. ph Bayonne, N. J.  
 Flemming, E. A. 2 m 540 McDonough, Bklyn.  
 Fletcher, S. F. 3 b 278 Prospect  
 pl., Bklyn.  
 Flower, H. J. 3 c 313 Gregory  
 ave., Passaic, N. J.  
 Fluhver, L. P. 2 s 604 W. 114  
 Flynn, D. J. 4 m 354 W. 56  
 Folger, H. 4 t 50 Pineapple,  
 Bklyn.  
 Folsom, R. P. 2 m 13 W. 60  
 Fontaine, A. C. ph 541 W. 124  
 Fontaine, M. L. 2 b 541 W. 124  
 Fontrier, M-M. A. 2 c 202 W. 128  
 Foot, N. C. 1 m 203 W. 87  
 Forbes, F. B. 4 c 8 W. 56  
 Ford, F. C. 2 s 5 Mt. Morris pk., W.  
 Ford, F. G. sp l 536 W. 114  
 Ford, W. A. 2 c 22 S. Bway.,  
 White Plains, N. Y.  
 Forest, L. de 1 c 14 E. 50  
 Forman, A. G. 3 b 2394 Seventh ave.  
 Forrest, N. S. 3 t 828 St. Nicholas ave.  
 Forsch, H. 1 c 31 W. 86  
 Forshay, A. E. sp m 216 W. 42  
 Forst, L. B. 2 s 250 W. 131  
 Forstot, S. 1 m 86 Norfolk  
 Forsyth, J. P. 3 l 131 W. 117  
 Fort, J. I. 1 m 33 S. 10, Newark,  
 N. J.  
 Fortmann, A. 2 t Morgan,  
 Union Hill, N. J.  
 Foshay, F. E. 1 b 315 Irving ave.,  
 Port Chester, N. Y.  
 Foss, F. H. 2 l 457 W. 123  
 Foster, F. J. gr t 107 W. 103  
 Foster, W. E. ph 438 Manhattan ave.  
 Foucar, F. H. 1 m 1275 Lexington ave.  
 Fountain, C. B. 4 b 1230 Amsterdam ave.  
 Fowler, B. K. T. 1 s 15 E. 82  
 Fowler, E. 2 s 114 Madison ave.  
 Fowler, E. C. 2 s 1260 Amsterdam ave.  
 Fowler, R. H. 2 c 60 E. 68  
 Fowler, S. ph 417 W. 118  
 Fowles, G. M. pl 2190 Seventh ave.  
 Fox, De W. 3 l 249 W. 139  
 Frambach, C. L. 3 s 419 W. 117  
 Frame, M. T. 1 b 27 S. Thirteenth  
 ave., Mt. Vernon, N. Y.  
 Franc, C. B., Jr. 2 s 648 Tenth,  
 Bklyn.  
 Francis, C. L. 3 t 242 W. 135  
 Francis, W. C. 3 s 1161 Amsterdam ave.  
 Franco, E. gr s 542 W. 113  
 Frank, A. 3 s 931 Park ave.  
 Frank, E. 2 b 138 W. 78  
 Frank, J. J. 3 c 138 W. 78  
 Frank, W. 1 l 209 W. 127  
 Frankel, E., Jr. 3 m 217 E. 17  
 Frankfield, H. 2 b 26 W. 85  
 Franklin, M. 3 b 17 E. 129  
 Fraser, A. J. 3 s 146th and  
 Gerard ave.

Fraser, P. H. *ph* 208 W. 87  
 Frazer, G. *ph* 586 Greene ave.,  
 Bklyn.  
 Freed, J. H. *1 b* 110 W. 74  
 Freeman, H. W. *3 l* 117 E. 78  
 Freeman, J. V., Jr. *4 m*  
 French, R. M. *1 s* cor. Webster  
 and Winyah aves., New  
 Rochelle, N. Y.  
 Freund, M. *2 s* 350 E. 116  
 Frey, D. I. *4 m* 3741 Third ave.  
 Fricke, W. M. *2 b*  
 431 Riverside drive  
 Fried, J. A. *2 s* 47 W. 87  
 Fried, R. *2 b* 225 E. 63  
 Friedenheit, A. *1 c* 178 E. 64  
 Frieder, W. *2 m* 58 E. 113  
 Friedland, A. A. *1 s*  
 1756 Madison ave.  
 Friedman, H. M. *3 m* 300 Stanton  
 Friedman, S. S. *2 m* 209 E. 72  
 Friedman, W. H. *1 s*  
 172 Rivington  
 Friess, L. L. *sp t* 536 Union ave.  
 Fritts, H. H. *3 m* 328 W. 56  
 Frothingham, M. K. *4 b* 60 W. 68  
 Frucht, S. *3 m* 63 Elizabeth  
 Fruchthandler, E. A. *3 m*  
 706 Willoughby ave., Bklyn.  
 Fuentes, V. *ph* 61 W. 97  
 Fuerst, S. M. *gr t* 520 W. 123  
 Fuld, L. F. *2 l* 130 E. 110  
 Fulkerson, L. L. *1 m*  
 386 Manhattan ave.  
 Fuller, F. J. *3 l* 504 W. 151  
 Fuller, H. L. *2 l* 165 E. 49  
 Fuller, R. W. *gr s* 331 W. 101  
 Fulton, C. A. *2 s* 127 Glen-  
 wood ave., Yonkers, N. Y.  
 Funk, M. L. *4 c* West New  
 Brighton, S. I.  
 Furst, S. *1 m* 952 Teller ave.  
 Furth, F. B. *1 b* 233 E. 60  
 Gaass, G. G. *3 l* 316 W. 116  
 Gage, B. *ph* 50 E. 70  
 Gage, H. M. *ph* 525 W. 123  
 Gain, J. C. *4 m* 317 W. 58  
 Gallert, D. P. *4 b* 48 W. 119  
 Galloway, I. *pl* 320 Manhattan ave.  
 Gano, L. E. *sp b* 526 W. 114  
 Gans, J. *1 l* 408 W. 115  
 Gans, M. B. *1 b* 52 W. 71  
 Garabedian, H. B. *ph* 25 E. 104  
 Gardiner, C. L. *1 b* 10 W. 103  
 Gardiner, C. R. *1 s* 229 W. 135  
 Gardner, M. L. *3 t*  
 1230 Amsterdam ave.

Garretson, L. B. *1 l* 11 E. 44  
 Garrett, F. *ph* 1293 Amsterdam ave.  
 Garrison, M. *1 b* 84 Highland  
 ave., Yonkers, N. Y.  
 Gaskins, J. D. *3 m* 325 W. 58  
 Gast, R. S. *2 l* 415 W. 118  
 Gautert, C. P. *1 c*  
 849 St. Nicholas ave.  
 Gay, F. W. *4 c*  
 39 S. 10, Newark, N. J.  
 Gebhart, H. M. *1 t*  
 1230 Amsterdam ave.  
 Geer, E. T. *4 c* 113 W. 11  
 Geer, W. M., Jr. *2 c* 113 W. 11  
 Geiger, A. W. *3 s* 522 W. 123  
 Gelbach, M. *1 b* 821 Hudson,  
 Hoboken, N. J.  
 Gellert, S. *4 m* 629 Sixth  
 George, D. G. *3 l*  
 50 Morningside ave.  
 Gere, L. B. *ph* 1161 Amsterdam ave.  
 Gerhard, H. W. *1 s*  
 39 Strong pl., Bklyn.  
 Gerner, F. B. *3 l* 316 W. 116  
 Gerolamo, C. M. *1 s* 240 Fifth ave.  
 Gerschanek, S. *pl* 274 W. 118  
 Gerster, J. C. A. *3 m* 34 E. 75  
 Ghiglione, A. J. *4 m*  
 Gibert, F. E., Jr. *2 s* 627 W. 115  
 Gibson, C. B. *1 b* 22 Prospect,  
 Yonkers, N. Y.  
 Gibson, C. W. *3 l* 521 W. 123  
 Gibson, J. S. *p* 36 St. Luke's pl.,  
 Montclair, N. J.  
 Gil, G. J. *sp m* 24 State  
 Gilbert, C. A. *fa* Madison, N. J.  
 Gilbert, C. M. *2 t*  
 1230 Amsterdam ave.  
 Gill, L. G. *2 t* Stapleton, S. I.  
 Gillen, W. A., Jr. *2 m*  
 119 Mercer, Jersey City, N. J.  
 Gillespie, J. P. *pl* 987 Madison ave.  
 Gillette, A. C. *2 l* 416 W. 118  
 Gillette, K. S. *2 t* 156 Cottage  
 ave., Mt. Vernon, N. Y.  
 Gillies, J. W. *2 s* 349 Sanford,  
 Flushing, N. Y.  
 Gillies, W. F. *4 s* 354 W. 120  
 Gilliland, J. F. *4 t* 557 W. 124  
 Gillin, J. L. *pl* 231 E. 76  
 Gilmour, R. T. *sp s* 101 W. 128  
 Ginsburgh, E. L. *3 m* 9 E. 112  
 Ginzler, A. *ph* 279 E. 7  
 Giovannitti, A. M. *ph*  
 700 Park ave.

- Gissel, H. W., Jr. 1 m  
228 Keap, Bklyn.
- Glanton, C. V. 3 t 412 W. 124
- Glanton, L. 4 t 412 W. 124
- Glanz, H. 4 m 74 Norfolk
- Glenney, W. L. 3 l 365 War-  
burton ave., Yonkers, N. Y.
- Gleysteen, W. H. pl 41 E. 69
- Goddard, H. C. ph 412 W. 115
- Godwin, V. 3 s 125 W. 122
- Goedkoop, A. E. 1 b  
1230 Amsterdam ave.
- Goelet, R. W. 2 l 591 Fifth ave.
- Goertner, Mrs. B. 2 t 104 W. 139
- Gold, H. R. ph 521 W. 123
- Goldbaum, L. 1 s 194 Snediker  
ave., Bklyn.
- Goldberg, A. 1 m 261 Second
- Goldberg, H. 3 s 128 E. 86
- Goldberg, H. 4 s 116 Stanton
- Goldberg, S. 2 s 156 Varet, Bklyn.
- Goldberger, L. A. 2 m  
128 Cannon
- Goldberger, N. S. 4 c 57 E. 60
- Golden, A. sp c 228 Henry
- Goldenweiser, A. ph 115 E. 116
- Goldfarb, A. J. p 228 Henry
- Goldfarb, P. 2 l 132 Sixteenth  
ave., Paterson, N. J.
- Goldfarb, S. J. 3 m 79 E. Bway.
- Goldie, W. V. 3 l 430 W. 118
- Goldman, A. 2 m 50 E. 98
- Goldman, H. ph 132 E. 70
- Goldman, M. I. 2 s 149 W. 81
- Goldmark, Mrs. F. sp b 331 W. 83
- Goldsmith, E. M. sp b 50 W. 75
- Goldsmith, I. I. 1 l 415 W. 118
- Goldsmith, O. L. 2 l 203 W. 117
- Goldstone, K. H. 4 m  
253 E. Bway.
- Goldwasser, D. gr t 143 W. 111
- Goldwater, E. 3 c 355 E. 116
- Gomez, M. 4 t 327 W. 84
- Gomph, C. L. ph Chelsea sq.
- Goodell, J. E. p 3132 Bway.
- Goodhart, H. 1 b 21 W. 81
- Goodlatte, A. R. p Passaic, N. J.
- Goodlatte, R. K. R. sp c  
419 W. 118
- Goodlatte, W. B. R. sp s  
Passaic, N. J.
- Goodman, E. M. 2 l 430 W. 118
- Goodrich, J. S. 4 s 334 W. 124
- Goodsell, W. 4 t  
1230 Amsterdam ave.
- Goodwin, H. H. 2 s  
386 Manhattan ave.
- Goodyear, Mrs. N. 3 b 371 W. 119
- Gordon, C. T. 2 c 48 W. 84
- Gordon, D., Jr. 2 m 1 St. Felix,  
Bklyn.
- Gordon, F. 1 b Guttenberg, N. J.
- Gordon, H. A. 3 l 133 E. 119
- Gordon, P. A. 1 c 41 Bull's Ferry  
rd., Guttenberg, N. J.
- Gorren, D. 1 s Rye, N. Y.
- Gossett, M. E. 3 l 130 E. 69
- Gottesman, A. 2 m  
278 E. Seventh
- Gould, N. 3 t  
1230 Amsterdam ave.
- Gowans, E. 3 t 417 W. 118
- Grabau, Mrs. A. W. 2 b  
527 W. 124
- Grace, C. S. 2 s 614 W. 113
- Grady, W. E. gr t 17 E. 99
- Grady, W. F. 1 m  
216 Valley, Orange, N. J.
- Graff, C. J. 1 s 721 E. 159
- Graham, C. M. 4 m 328 W. 56
- Graham, H. F. 3 m 328 W. 56
- Graham, J. E. 2 m Students'  
Club, W. 56
- Graham, M. D. 3 t  
1230 Amsterdam ave.
- Granberry, D. W. 1 m 408 Main,  
Orange, N. J.
- Grandin, F. B. sp b 116 W. 76
- Granger, E. A. 4 b 106 S. First  
ave., Mt. Vernon, N. Y.
- Grant, E. C. II. 3 t 417 W. 118
- Grant, H. A. 4 s Tarrytown,  
N. Y.
- Grant, L. 1 b 2099 Eighth ave.
- Grasse, W. H. 3 l 216 W. 131
- Gravenhorst, P. G. 4 c  
304 Carlton ave., Bklyn.
- Graves, A. J. 1 m 258 W. 55
- Graves, J. M. 4 t 57 E. 122
- Gray, M. G. 3 b 246 Fourteenth,  
Bklyn.
- Greeff, G. E. H. 2 c 627 W. 115
- Green, E. H. 3 c 44 E. 75
- Green, E. R. 1 b 103 W. 103
- Green, H. C. pl 231 W. 135
- Greene, A. D. 3 b 49 W. 68
- Greene, C. A. 4 t 120 S. Second,  
Bklyn.
- Greene, E. A. 4 t 507 W. 112
- Greene, R. de C. 2 s 507 W. 112
- Greene, Van R. H. 4 c 49 W. 68
- Greenspan, S. 2 m 294 E. 3
- Greenway, J. C. 4 m  
667 Madison ave.
- Greenwood, E. M. 1 b 233 W. 138
- Greenwood, J. W. 2 s 417 W. 117

Greer, M. M. *sp b* Governor's Island  
 Gregory, W. K. *p'* 214 W. 82  
 Grey, E. W. *ph* 32 Cambridge pl., Bklyn.  
 Gridley, H. N. *1 l* 308 W. 115  
 Griffith, J. M. *1 l* 416 W. 118  
 Grimley, E. A. *1 l* So. Boulevard, Bedford pk.  
 Griswold, C. T. *3 s* 312 W. 87  
 Griswold, F. K. (Mrs.) *4 t* 81 Morningside ave.  
 Groat, G. G. *pl* 430 W. 118  
 Groeschel, L. B. *2 m* 213 Alexander ave.  
 Grossman, L. J. *2 m* 86 Seigel, Bklyn.  
 Grossman, M. *3 l* 738 E. 142  
 Grosvenor, E. P. *3 l* 416 W. 118  
 Groszman, W. H. *3 c* Ft. Wash. ave. and Depot Lane  
 Grudberg, S. C. *1 m* 311 E. 85  
 Gruening, C. E. *ph* 36 E. 57  
 Grussner, A. *4 m* 275 E. 3  
 Guebin, L. *ph* 177 Park pl., Bklyn.  
 Guerrlich, F. C. *2 s* 533 W. 145  
 Guggenheim, M. R. *1 s* 12 W. 54  
 Guilbert, F. D. *4 t* 457 W. 123  
 Guile, H. V. *1 m* 54 Pine  
 Guinehard, A. *1 s* 259 W. 112  
 Gumm, H. H. *3 l* 430 W. 118  
 Gussinklo, W. Te. *2 m* 81 Fourth ave.  
 Gutman, A. S. *4 c* 12 E. 80  
 Gutman, E. J. *3 s* 400 Manhattan ave.  
 Gutgsell, A. E. *3 l* 253 W. 112  
 Gutherson, W. F. *4 m* Paterson, N. J.  
 Guyer, C. C. *gr t* 417 W. 118  
 Guyer, S. H. *1 t* 1230 Amsterdam ave.  
 Haan, H. I. *sp b* 57 W. 75  
 Haas, E. *f.* *4 b* 7 E. 69  
 Haas, G. C. O. *ph* 64 Seventh  
 Haas, H. C. *3 s* 131 E. 47  
 Haas, H. J. *2 l* 157 W. 123  
 Haberman, J. V. *3 m* 248 E. 61  
 Hackett, I. A. *sp b* 414 W. 118  
 Hageman, G. R. *3 c* 139 W. 84  
 Hagen, O. R. *3 m* 348 W. 58  
 Hahn, A. W. *3 s* 245 W. 130  
 Hahn, R. H. *3 l* 80 St. Nicholas ave.  
 Hahnel, A. F. *3 s* 985 Prospect ave.

Haight, C. M. *2 s* 490 Lenox ave.  
 Haight, J. McV. *1 c* 116 and Riverside dr.  
 Haight, L. H. *3 s* 152 Sixth ave., Bklyn.  
 Haines, C. G. *pl* 106 W. 105  
 Haines, E. J. *2 s* 878 St. John's pl.  
 Hale, G. D. *4 m* 144 W. 65  
 Haley, E. M. *4 t* 600 W. 125  
 Hall, C. D. *pl* 312 W. 125  
 Hall, C. D. *2 b* 278 Prospect ave., Mt. Vernon, N. Y.  
 Hall, E. C. *sp m* 216 W. 42  
 Hall, E. C. *2 s* Netherwood, N. J.  
 Hall, F. C. *1 c* 430 W. 118  
 Hall, F. E. *ph* 93 Linden ave., Jersey City, N. J.  
 Hall, H. R. *3 l* 557 W. 124  
 Hall, M. F. *sp b* 48 Downing, Bklyn.  
 Halleck, P. S. *p* 163 St. Nicholas ave.  
 Hollowell, H. *4 t* 2137 Seventh ave.  
 Halpin, J. J. *3 l* 185 Hudson  
 Halpin, Z. P. *1 s* 3472 Bway.  
 Halstead, K. B. *3 l* 414 W. 118  
 Hamburger, G. *3 m* 64 Columbia  
 Hamill, P. J. P. *4 m* 141 Mercer, Jersey City, N. J.  
 Hamilton, C. A. *gr t* Boys' High School, Bklyn.  
 Hamilton, G. A. *3 c* 2193 Bway.  
 Hamilton, J. G. de R. *pl* 526 W. 123  
 Hamilton, T. H. *1 s* 523 W. 113  
 Hammerschlag, H. A. *1 s* 38 Bretnal pl., Newark, N. J.  
 Hammerslough, C. *p* 1215 Madison ave.  
 Hammerslough, R. L. *4 c* 1215 Madison ave.  
 Hammond, B. E. *sp b* 123 Waverly pl.  
 Hammond, E. *2 t* 520 W. 123  
 Hanau, H. S. *4 s* 107 W. 126  
 Hance, J. C. *4 m* 147 W. 63  
 Handy, E. B. *3 b* New Brighton, S. I.  
 Hanemann, E. L. *3 c* 159 W. 85  
 Haner, C., Jr. *2 c* 147 W. 105  
 Hankins, F. H. *pl* 361 W. 123  
 Hankinson, J. H. *1 l* 34 Gramercy pk.  
 Hanson, H. O. *ph* 886 Jackson ave.  
 Hanson, I. E. *4 t* 454 Manhattan ave.  
 Harbeck, C. J. *3 m* 306 Lexington ave.



- Harcourt, A. 4 c 306 W. 115  
 Hard, S. 1 s 417 W. 117  
 Hardenberg, D. S., Jr. 4 m  
 354 Pacific ave., Jersey City,  
 N. J.  
*Hardin, M. E. ph 324 Belleville*  
*ave., Newark, N. J.*  
 Hardman, M. 2 l 415 W. 117  
 Harper, H. 3 c 92 W. 103  
 Harper, J. F. pl 80 E. 55  
 Harper, P. T. 1 m  
 50 Morningside ave.  
 Harrigan, A. H. 3 m 347 W. 58  
*Harriman, M. sp b Arden, N. Y.*  
 Harrington, D. J. 1 s 366 W. 120  
*Harrington, G. A. 4 t*  
*Tompkinsville, S. I.*  
 Harrington, J. T. 2 m  
 Milburn, N. J.  
 Harrington, R. V. 2 l 140 W. 64  
 Harris, B. S. 4 m 28 Prospect pl.,  
 Bklyn.  
 Harris, H. B. 2 m 39 Cleveland,  
 Orange, N. J.  
 Harris, H. H. 4 c 170 W. 94  
 Harris, H. S. 4 t  
 1272 Amsterdam ave.  
 Harris, L. I. 3 m 25 Avenue C  
 Harris, W., Jr. 1 c 73 and Bway.  
 Harris, W. M. 1 l  
 Harrison, A. 2 s 50 W. 105  
 Harrison, M. S. 3 c 69 E. 122  
 Harrison, R. C. 2 l  
 78 Kingston ave., Bklyn.  
*Hart, A. 2 b 1230 Amsterdam ave.*  
 Hart, A. J. 4 m  
*Hart, C. A. gr t 246 W. 108*  
 Hart, F. B. 3 m 812 Lafayette  
 ave., Bklyn.  
 Hart, L. 2 m 153 W. 61  
 Hartmann, H. G. ph  
 Woodhaven, L. I.  
 Hartmann, J. W. ph 309 E. 10  
*Harvitt, H. J. 1 b 192 Hooper,*  
*Bklyn.*  
 Harwich, M. 3 m 226 Eldridge  
 Hasell, M. C. 2 c 126 E. 71  
 Haskell, A. 2 b 501 W. 120  
 Haskell, Mrs. H. S. 4 b  
 688 E. 138  
 Haskell, R. H. 1 c 111 W. 84  
 Hastie, J. D. 4 m 151 E. 54  
 Hastings, H. W. 2 c 119 E. 86  
 Hasty, P. S. 3 t 318 W. 121  
 Hatch, H. B. 3 s 111 W. 103  
 Hatch, W. A. 2 t 31 Madison  
 ave., Tompkinsville, S. I.  
 Hauhart, W. F. ph 507 W. 112  
 Haviland, J. B. 1 l 419 W. 118  
*Hawes, J. J. 4 b 13 Leland ave.,*  
*New Rochelle, N. Y.*  
 Hawes, L. F. S. 1 c 13 Leland  
 ave., New Rochelle, N. Y.  
 Hawkes, E. M. Z. sp m  
 15 Central ave., Newark, N. J.  
 Hawkesworth, J. 4 s 102 W. 80  
 Hawkins, W. M. 1 c 514 E. 87  
 Haworth, P. L. pl 524 W. 123  
 Haxby, R. Van L. 2 s 438 W. 116  
*Haydock, A. 4 b 501 W. 149*  
 Hayes, C. H. 4 c 956 Ogden ave.  
*Hayes, E. B. 4 t 10 E. 43*  
 Hayes, P. H. 3 m 320 W. 58  
*Haynes, A. F. 3 t*  
*1230 Amsterdam ave.*  
*Haynes, J. E. 2 b 2213 Fifth ave.*  
 Haynes, R. ph 700 Park ave.  
 Hays, A. G. 2 l 254 W. 105  
*Hays, A. L. 1 b 254 W. 105*  
 Hays, H. M. 3 m 254 W. 105  
 Head, H. W. 3 l 418 W. 118  
 Heald, H. B. 3 c 175 Ninth ave.  
 Heaton, J. P. 3 c 1025 Bushwick  
 ave., Bklyn.  
*Hecht, B. 1 b 1230 Amsterdam ave.*  
 Hecht, F. ph 436 Jefferson ave.,  
 Bklyn.  
 Hecker, J. McK., 2 c 44 W. 37  
 Hedemann, F. F. 1 m 210 W. 72  
 Hedinger, J. H. B. 4 c 36 W. 126  
 Hedley, B. 4 t  
 1268 Amsterdam ave.  
*Heidenheimer, A. B. 3 b*  
*1078 Madison ave.*  
 Heidgerd, G. H. 1 s 142 W. 122  
 Heidtmann, A. W. 1 s 54 Mt.  
 Vernon ave., Mt. Vernon, N. Y.  
 Heiman, H. 2 c 56 W. 120  
 Heiman, J. 1 m 144 W. 113  
*Heimann, E. 2 b 315 W. 105*  
 Heimann, W. J. 3 m 315 W. 105  
 Hein, H. E. sp s 1304 Fulton ave.  
 Hein, T. L. 3 m 6 W. 87  
 Heine, J. 3 m 182 Second ave.  
 Hellenberg, L. H. 1 c 130 W. 136  
 Heller, C. 4 s 12 E. 77  
*Hellin, L. 1 b 1085 Park ave.*  
 Hellman, A. M. 3 m 15 E. 92  
*Henderson, H. 1 b 7 Henry,*  
*Flatbush, N. Y.*  
*Henderson, N. sp b 27 E. 65*  
*Hendricks, E. 3 b 18 E. 80*  
*Hendricks, Mrs. H. H. sp b*  
*336 W. 89*  
 Hendrickson, C. LeR. 1 l  
 614 W. 113

Henes, E., Jr. 1 c 128 E. 93  
Hennen, W. D. 4 m N. Y. A. C.,  
W. 59  
Henmon, V. A. C. ph 503 W. 124  
Henriquez, R. A. 1 s 74 W. 89  
Henry, M. W. 2 m 56 Clark,  
Bklyn.  
Henschel, L. K. 2 m  
1239 Washington ave.  
Henson, C. C. gr t 214 W. 123  
Herbert, J. C. pl 519 W. 123  
Herbert, Le R. B. pl 112 W. 124  
Herché, H. H. 2 l 541 W. 124  
Herrick, J. C. ph St. Joseph's  
Seminary, Yonkers, N. Y.  
Herrmann, S. 2 b 147 W. 103  
Herschberg, S. 2 c 302 Central  
pk., W.  
Hershey, J. S. 3 l 519 W. 123  
Hertz, H. L. 2 s 422 E. 57  
Hervey, A. M. 4 m 122 W. 58  
Herz, H. 3 l 230 W. 25  
Herzberg, M. J. 1 c  
170 Bruce, Newark, N. J.  
Herzfeld, B. F. 1 b 147 W. 86  
Herzfeld, E. G. pl 147 W. 86  
Hess, E. 2 s 340 E. 20  
Hess, J. S. 1 l 50 Pine  
Hessler, H. P. sp m 322 E. 53  
Hetherington, F. S. 1 c 118 E. 56  
Hetschel, C. M. 3 t 526 E. 153  
Hewitt, M. L. ph 280 Garside,  
Newark, N. J.  
Heydrick, B. A. gr t 55 W. 83  
Heyman, B. 3 b 134 W. 131  
Heyman, H. K. 2 l 130 W. 131  
Heyman, W. 3 s 148 Newark  
ave., Jersey City, N. J.  
Hibbard, F. H. 3 t  
1230 Amsterdam ave.  
Hibler, G. H. 4 m  
Higbie, H. H. 4 s 223 W. 105  
Higbie, J. R. 3 c 177 W. 73  
Higgins, A. ph 401 Macon,  
Bklyn.  
Higgins, J. C. 1 l 415 W. 118  
Higgins, J. E. sp s 413 W. 117  
Hilborn, J. 1 b 22 W. 96  
Hilgen, E. A. 3 t  
1293 Amsterdam ave.  
Hill, A. L. 3 b 335 W. 84  
Hill, E. 1 m 633 W. 142  
Hill, F. A. 3 t 500 W. 123  
Hill, G. C. 3 c 524 W. 123  
Hill, H. N. 4 b 633 W. 142  
Hill, H. W. 1 s 517 Manhattan ave.  
Hill, Mrs. M. A. pl 541 W. 49  
Hill, P. S. 3 l 430 W. 118

Hills, W. F. gr t 321 W. 116  
Hinckley, F. E. pl 419 W. 118  
Hincks, R. B. 2 l 133 W. 113  
Hipple, J. A. 3 l 521 W. 123  
Hirsch, B. p 1185 Lexington ave.  
Hirsch, H. 3 l 14 Morningside ave.  
Hirsch, S. H. 4 b  
1140 Madison ave.  
Hirschbach, H. 4 b 154 W. 75  
Hirschberg, C. N. 3 s 177 W. 95  
Hirschberg, S. 2 c 91 and  
Central pk., W.  
Hirsdansky, S. ph 207 W. 109  
Hitlin, A. 3 m 72 McKibben,  
Bklyn.  
Hix, M. 4 t 463 W. 164  
Hoadley, H. ph 140 W. 13  
Hobart, D. R. 2 s 71 W. 83  
Hochheimer, H. A. 3 b  
1311 Madison ave.  
Hochschild, C. 1 s 137 W. 103  
Hochsprung, G. W. 4 s  
111 Patchen ave., Bklyn.  
Hock, C. T. ph Bloomfield, N. J.  
Hodgkins, G. ph 211 W. 101  
Hoenninger, J. C. 1 l 54 E. 108  
Hoexter, H. H. 1 t  
786 Cauldwell ave.  
Hoff, H. C. 1 m 1779 Madison ave.  
Hoffman, A. p 217 Hewes, Bklyn.  
Hoffman, F. K. 1 l 218 W. 116  
Hoffman, G. W. 1 s 158 W. 118  
Hoffman, M. 2 l 49 W. 95  
Hoffman, M. E. 3 b 356 Henry,  
Bklyn.  
Hofheimer, H. 1 l 318 E. 19  
Hoguet, J. P. 1 m 141 and  
Hudson River  
Hoguet, R. 2 l 141 and  
Hudson River  
Holden, E. S. 2 b 414 W. 118  
Holland, H. S. 3 m 473 W. 152  
Holliday, E. P. 2 s 430 W. 118  
Hollis, I. M. pl 203 W. 117  
Hollister, S. T. 1 c 61 E. 91  
Hollmann, F. W. 3 s  
1851 Madison ave.  
Holloway, J. H. gr t 611 E. 140  
Holmes, C. A. 4 m  
1043 Boston rd.  
Holmes, D. A. 4 s 116 and  
Riverside dr.  
Holmquist, G. S. 1 s 176 W. 87  
Holt, R. G. 1 m 210 W. 44  
Holthausen, W. F. 4 m 136 Kent,  
Bklyn.  
Holzman, A. C. 2 m  
937 Bushwick ave., Bklyn.

- Hood, M. C. 3 t  
     1230 Amsterdam ave.  
 Hood, P. G. 4 m 699½ High,  
     Newark, N. J.  
 Hooker, H. L. 4 m 50 W. 89  
 Hooper, G. H., Jr. 3 s 141 W. 47  
 Hooper, P. M. sp s 419 W. 118  
 Hope, E. E. 2 t 600 W. 125  
 Hopkins, E. B. 1 t  
     1230 Amsterdam ave.  
 Hopkins, F. L. 1 c 210 Elm,  
     Yonkers, N. Y.  
 Hopp, F. R. sp s 218 W. 112  
 Hopping, A. T. 1 c 532 W. 114  
 Horan, M. E. 1 b 7 W. 92  
 Horne, W. T. p N. Y. Bot. Gar.  
 Hornidge, H. T. 1 l 306 E. 50  
 Horowitz, B. 4 m 153 Beach ave.  
 Horowitz, P. 4 m 17 W. 112  
 Horton, J. W. sp m  
 Horton, M. S. 4 t  
     1104 Carnegie Hall  
 Hosford, L. P. 2 s 529 Second,  
     Bklyn.  
 Hoshino, K. 2 c 64 E. 133  
 House, E. A. 4 t  
     Hastings-on-Hudson, N. Y.  
 House, E. C. 1 s 252 W. 93  
 House, H. A. 2 s 158 W. 81  
 House, H. D. p  
     Bedford pk., N. Y.  
 Housel, A. M. ph 549 W. 125  
 Houston, O. R. 4 c  
     25 Mt. Morris pk., W.  
 Howard, C. M. ph 415 W. 118  
 Howard, H. E. 1 s 369 W. 120  
 Howard, L. A. C. 2 b  
     University Heights  
 Howard, M. E. 4 t 500 W. 123  
 Howe, A. O. 4 s E. 193 and  
     Decatur ave.  
 Howell, A. S. 2 t  
     1230 Amsterdam ave.  
 Howell, E. T. D. 2 m  
     2147 Seventh ave.  
 Howell, J. J. 4 s 210 W. 122  
 Howell, J. M. 2 s 243 W. 120  
 Howes, H. W. 2 l  
     22 Morningside ave.  
 Howland, De R. 2 m 129 W. 61  
 Hoyt, F. F. 4 b 17 E. 95  
 Hoyt, J. R. 1 s 9 W. 32  
 Hoyt, S. F. 3 b 17 E. 95  
 Hubbard, F. E. 4 b 270 Monroe,  
     Bklyn.  
 Hubbard, M. A. 4 t 87 Centre  
     ave., New Rochelle, N. Y.  
 Hubbard, R. H. 3 c 138 W. 74
- Hughan, E. M. 4 b 663 Quincy,  
     Bklyn.  
 Hughes, D. E. 4 c 519 W. 123  
 Hughes, G. C. 2 s 302 E. 18  
 Hughes, G. E. ph 430 W. 118  
 Hughes, H. D. 1 s 519 W. 123  
 Hulbert, W. R. 4 s 420 W. 20  
 Hull, A. 4 m 8736 Bay 15,  
     Bklyn.  
 Hull, E. T. 4 m 317 W. 56  
 Hull, F. I. 3 l 105 Franklin ave.,  
     Mt. Vernon, N. Y.  
 Humphrey, F. L. 3 s 524 W. 123  
 Hunt, C. S. 3 m 12 W. 60  
 Hunt, E. K. ph 401 W. 149  
 Hunt, M. M. 4 b 115 Gifford ave.,  
     Jersey City, N. J.  
 Hunt, W. E. sp s 420 W. 118  
 Huntington, R. 4 t  
     1230 Amsterdam ave.  
 Hunting, E. 3 t  
     1230 Amsterdam ave.  
 Hunting, J. S. 4 t  
     1230 Amsterdam ave.  
 Hurley, M. L. sp c 234 W. 114  
 Hurley, T. L. 4 c 426 W. 160  
 Hurty, K. E. 1 b Clifford,  
     Pelham, N. Y.  
 Hurwitz, D. E. 1 l 61 W. 114  
 Hussakof, L. p 111 Division  
 Hussey, F. V. 4 m 144 W. 65  
 Huston, H. W. 2 m 368 W. 55  
 Hutcheson, A. C. 3 m 318 W. 57  
 Hutchings, DeW. V. pl  
     700 Park ave.  
 Hutchinson, E. J. 3 b 287 Carroll,  
     Bklyn.  
 Hutchinson, R. H., Jr. 3 m  
     530 W. 143  
 Hutter, A. 3 l 352 E. 74  
 Huttman, M. A. 4 t 278 Clinton  
     ave., Bklyn.  
 Hutton, A. L. 3 m 319 W. 107  
 Hutton, M. ph 128 W. 82  
 Hutton, M. S. 2 s 319 W. 107  
 Huyck, R. P. 2 m 335 W. 58  
 Hyams, J. A. 3 m 409 E. 118  
 Hyde, H. St. J. p 210 E. 18  
 Hyman, A. 3 m 124 E. 64  
 Hyman, M. 3 c 124 E. 64  
 Inman, S. G. 4 c 323 W. 56  
 Intemann, H. C. 2 l  
     848 Union Ave.  
 Isaacs, S. 2 c 115 Columbia  
 Isaacs, S. M. 1 l 110 E. 73  
 Iskowitz, H. 3 m 66 Second ave.  
 Isles, M. M. sp t 416 W. 124

Ison, V. S. 4 m 143 W. 61  
 Israel, M. B. 1 b 68 E. 77  
 Ittelson, M. 2 m 76 E. 101  
 Iyengar, S. D. sp s

Jabine, W. 1 c 365 Warburton  
 ave., Yonkers, N. Y.

Jackson, A. F. 3 m 360 W. 116

Jackson, C. F. H. 1 c Westches-  
 ter, New York City

Jackson, D. ph 439 W. 123

Jackson, L. L. gr t 417 W. 118

Jacob, D. R. sp s

Jacobs, E. sp b 92 Morningside  
 ave.

Jacobs, L. 4 m 26 E. 118

Jacobs, L. ph 242 E. 30

Jacobs, S. B. 3 s 434 Hawthorne  
 ave., Yonkers, N. Y.

Jacobs, W. A. 4 c 2783 Bway.

Jacobson, S. O. 4 s 371 W. 116

Jacobstein, M. 4 c 557 W. 124

Jaffe, H. M. 1 m 423 Grove,  
 Jersey City, N. J.

Jaffin, A. E. 3 m 299 Railroad  
 ave., Jersey City, N. J.

James, B. C. 2 b Rahway, N. J.

James, C. C. 3 t 600 W. 125

James, H. 1 m 124 W. 64

Jameson, C. B. gr t 47 W. 119

Jameson, J. W. 3 m 317 W. 56

Jané, A. C. 2 m 325 W. 58

Janes, H. L. pl 353 W. 17

Janeway, W. R. 1 m 5 St. Mark's  
 pl., New Brighton, S. I.

Janson, W., Jr. sp m 76 Moffatt, Bklyn.

Jarcho, I. 4 s 1326 Park ave.

Jarcho, J. 4 m 1326 Park ave.

Jarmulowsky, A. 2 l 102 E. 60

Jeal, E. R. 1 s Lawrence, R. I.

Jeffrey, J. W. ph 1230 Amsterdam ave.

Jeffrey, S. L. 4 m 2197 Bway.

Jenkins, J. C. 1 s 173 W. 85

Jenkins, M. E. ph 509 W. 124

Jessup, E. C. 4 t 27 W. 8

Fewell, I. E. sp t 1230 Amsterdam ave.

Joelson, M. S. 2 m 50 E. 98

Joffé, J. A. ph 530 W. 123

Johnson, A. E. sp t 106 Foralemon, Bklyn.

Johnson, A. M. 2 s 519 W. 123

Johnson, A. R. ph 168 Hancock, Bklyn.

Johnson, F. A. 2 m 129 W. 61

Johnson, F. D. 1 s 413 W. 117

Johnson, H. L. 4 t 430 W. 118

Johnson, H. N. 1 s 66 E. 124

Johnson, H. R. sp c 457 W. 123

Johnson, H. T. 1 l 533 W. 145

Johnson, L. P. 1 b 419 W. 118

Johnson, O. H. sp m 330 W. 56

Johnson, R. McL. 2 s 540 Clifton  
 ave., Newark, N. J.

Johnston, E. M. 1 s 608 W. 113

Johnston, F. ph 1230 Amsterdam ave.

Johnston, M. E. 3 m 127 W. 61

Johnston, M. L. 3 b 250 W. 138

Johnston, R. 4 b 453 W. 123

Johnston, W. H. 1 t 996 Lafay-  
 ette ave., Bklyn.

Joly, C. L. 1 s 65 W. 87

Jones, E. B. pl 43 Morton

Jones, H. H. 3 t 31 Elm,  
 Bloomfield, N. J.

Jones, H. L. 3 t 1230 Amsterdam ave.

Jones, M. E. 3 t 1230 Amsterdam ave.

Jones, R. M. 3 s 419 W. 117

Jones, T. M. 3 s 333 W. 87

Jones, W. C. ph 700 Park ave.

Jones, Z. sp t 3136 Bway.

Jorgensen, T. ph 700 Park ave.

Joseph, D. H. 1 c 266 W. 121

Joseph, O. L. pl 700 Park ave.

Joseph, R. sp s 28 W. 95

Josephs, I. S. 3 c 111 Lenox ave.

Jouard, F. L. 4 c 337 E. 68

Joyce, E. R. 3 m 341 E. 87

Judd, E. K. sp s 522 W. 123

Judson, L. J. pl Dobbs Ferry, N. Y.

Julihn, C. E. 4 s 430 W. 118

Kaempfer, L. G. 3 m 300 Central pk., W.

Kagan, F. 1 t 1230 Amsterdam ave.

Kahle, H. 1 s 430 W. 118

Kahn, A. C. 3 l 110 W. 46

Kahn, A. L. 4 c 10 W. 75

Kahn, E. J. 1 s 50 E. 83

Kahn, M. 2 c 27 St. Mark's pl.

Kahrs, J. D. 3 l 1592 Lexington ave.

Kaighn, R. P. gr t 51 Quincy, Bklyn.

Kaiser, G. H. 2 c 214 W. 92

Kaliski, D. J. 3 m

Kalisky, A. 3 l 478 Seventh ave.

Kamada, T. pl 235 W. 116

Kann, A. sp s 114 E. 114

Kanolt, C. W. p 412 W. 115



- Kanski, R. P. 2 s 839 E. 139  
 Kanter, J. B. 3 m 242 E. 109  
*Kaplan, C. 3 b 98 E. Bway.*  
 Kaplan, M. M. *ph* 328 E. 52  
 Kasugai, J. *pl* 50 Howard  
 Katz, D. 4 m 38 W. 116  
 Kaufman, A. 2 s 256 W. 129  
 Kaufman, H. H. 3 l 116 W. 80  
 Kaufman, I. 2 m 662 Robbins ave.  
 Kaufmann, C. 2 l 210 E. 68  
 Kaufmann, S. W. 2 l 25 E. 76  
 Kaunitz, J. 3 m 408 W. 58  
 Kaye, B. M. 3 c 320 E. 124  
 Keating, T. S. 1 m 316 Willoughby ave., Bklyn.  
 Kedian, W. M. 2 s 307 E. 30  
 Keegan, T. D. 4 m 156 Clinton  
 ave., Jersey City, N. J.  
 Keeler, F. Y. 2 c 419 W. 118  
 Keeney, C. B. 1 m 12 Bway.  
 Keeney, S. 1 b 35 W. 93  
 Keep, A. B. *pl* 519 W. 123  
 Kehrlein, E. V., Jr. *sp c* 430 W. 118  
 Kehrlein, O. Du F. 1 m Hotel Savoy  
*Keil, C. E. 4 t 234 W. 129*  
*Keith, M. H. p 557 W. 124*  
 Kelleher, J. F. 1 m 265 Varick,  
 Jersey City, N. J.  
 Keller, J. A. 3 m 343 W. 121  
 Keller, M. 1 m 83 Essex  
 Keller, S. C. 3 m 429 High,  
 Newark, N. J.  
 Keller, W. B., Jr. 1 s 252 W. 76  
 Kelley, W. E. 1 c 116 and Seventh  
 ave.  
 Kellogg, J. Y. C. 2 l 604 W. 114  
 Kellogg, L. O. 2 s 430 W. 118  
 Kellogg, P. W. *pl* 105 E. 22  
 Kelly, E. *sp m* 207 E. 34  
 Kelly, H. W. *sp t* 1230 Amsterdam ave.  
 Kendler, J. 2 c 5 E. 104  
 Kennedy, A. *f. 3 b* 1230 Amsterdam ave.  
 Kennedy, D. J. 1 s 197 Berkley pl., Bklyn.  
 Kennedy, M. S. *ph* 124 W. 126  
 Kenney, A. L. 2 l 421 Manhattan ave.  
 Kern, O. B. *gr t* 503 W. 124  
 Kerr, A. T. 4 c 453 W. 123  
 Kerr, C. D. 3 l 155 W. 73  
 Kessler, *f. D. sp b* 102 W. 75  
 Keune, H. 3 m 70 W. 120  
 Keys, E. C. 2 s 137 W. 132  
 Kibbe, E. J. 2 m 119 W. 63  
 Kibby, L. 3 t 528 W. 123  
 Kidder, S. J. 4 s 373 W. 123  
 Kiernan, T. J. 4 t 997 E. 183  
 Kilbourne, C. G. 2 s 357 W. 115  
 Kilian, T. P. 2 s 421 W. 144  
 Kilroe, E. P. 4 c 166 Grand,  
 Jersey City, N. J.  
 Kimball, A. A. 2 t 210 W. 107  
 Kimball, C. C. 4 m 110 E. 29  
 Kimball, P. W. 2 m 247 W. 74  
 Kincaid, M. 1 s 695 Ninth ave.  
 Kind, J. L. *ph* 419 W. 118  
 King, B. *gr t* 209 W. 107  
 King, C. A. 2 s 627 W. 115  
 King, H. F. 2 s 604 W. 114  
 King, J. J. 1 s 1038 Park ave.  
 King, W. W. *ph* 231 W. 116  
 Kingsley, C. D. *pl* 105 E. 22  
 Kingsley, R. 2 m 225 Riverside dr.  
 Kinsey, R. G. 2 s 520 W. 123  
 Kirby, C. M. 2 s 541 W. 124  
 Kirk, E. 1 c 552 W. 125  
 Kirk, W. P. 1 s 38 W. 106  
 Kirkpatrick, F. F. *sp l* 235 W. 103  
 Kirschberg, H. 2 s 30 W. 128  
 Klaber, E. H. 2 s 389 Manhattan ave.  
 Klaber, W. 3 c 389 Manhattan ave.  
 Klass, C. W. *pl* 41 E. 69  
 Klauber, B. 1 t 42 W. 88  
 Kleeberg, G. S. P. 3 c 3 Riverside dr.  
 Klein, D. *ph* 135 Goerck  
 Klein, F. E. 3 c 206 E. 30  
 Klenke, J. H., Jr. 2 s 1165 Park ave.  
 Kline, H. J. 2 s 635 E. 9  
 Knakal, W. R. 2 s 1042 First ave.  
 Knapp, D. 1 t 35 Caroline ave.,  
 Yonkers, N. Y.  
 Knapp, R. E. 1 m 110 Main,  
 Hackensack, N. J.  
 Knapp, T. J. *gr t* Arlington, N. J.  
 Knauff, G. 4 c 176 S. Parsons  
 ave., Flushing, N. Y.  
 Kniffin, L. M. 2 s 15 Ryle ave.,  
 Paterson, N. J.  
 Knight, C. C. 2 s 221 W. 49  
 Knight, J. L. 1 s 221 W. 49  
 Knight, W. D. 1 c 38 W. 106  
 Knox, E. E. *sp b* 210 Tenth,  
 Hoboken, N. J.  
 Knox, E. M. 2 b 256 W. 123  
 Knox, G. E. 4 t 216 W. 102  
 Knox, R. C. *pl* 700 Park ave.  
 Knudson, M. A. *ph* 422 Grand  
 ave., Bklyn.

Kobbé, G. L. 1 l 109 E. 29  
 Kobler, E. W. 2 m 39 W. 92  
 Koch, F. J. 4 t 290 Hudson  
 Koenig, N. A. ph 80 W. 12  
 Koff, J. J. 3 m 64 E. 93  
 Kohlberg, H. S. 1 c 8 W. 131  
 Kohlberg, W. L. 1 c 8 W. 131  
 Kohlu, L. F. 3 s 1286 Columbus ave.  
 Kohn, B. 3 m 3 W. 114  
 Kohn, I. C. 1 b 13 E. 75  
 Kohn, L. ph 10 E. 60  
 Kohut, E. 2 b 44 W. 58  
 Koizumi, S. pl 120 W. 116  
 Konkol, A. B. gr t 347 E. 74  
 Kottman, W. A. pl 523 W. 44  
 Kouwenhoven, H. W. 2 l  
 Lincoln ave., Jamaica, N. Y.  
 Kovar, A. ph 217 Forsyth  
 Kramer, H. F. 1 m 183 Wash-  
 ington, Bklyn.  
 Kramer, S. pl 50 W. 112  
 Krans, E. S. 1 m 29 W. 84  
 Krauss, F. I. 2 c 12 Washington  
 pl., East Orange, N. J.  
 Krause, J. J. 3 l 419 W. 118  
 Kraut, M. 3 s 57 Warren  
 Krehbiel, H. V., Jr. 2 c 200 W. 142  
 Kreshover, J. S. 4 m 179 Bowery  
 Kress, O. 2 s 241 W. 101  
 Kreuder, H. E. 4 c 62 W. 97  
 Kröger, H. A. 1 s  
 Spuyten Duyvil, N. Y.  
 Kropff, A. H. 1 s 136 W. 119  
 Krueger, K. P. 2 s 526 W. 123  
 Krueger, M. H. t  
 1230 Amsterdam ave.  
 Krumwiede, C., Jr. 3 m 57 W. 84  
 Kruse, F., Jr. 2 s 116 E. 19  
 Kudlich, H. E. 4 m 153 W. 21  
 Kunz, G. H. sp s 40 E. 25  
 Kupfer, E. p 44 W. 97  
 Kurpick, C. F. 3 m  
 St. Francis' Hospital  
 Kurzenknahe, F. E. 2 s  
 140 W. 109  
 Kutscher, M. 3 m 100 Broad,  
 Stapleton, S. I.  
 Kuwashima, B. H. pl  
 140 Nassau, Bklyn.  
 Kyte, J. H. 1 s Fanwood, N. J.

Lage, F. 1 s 430 W. 118  
 Lamb, A. R. 1 m 230 W. 75  
 Lamme, M. A. p 242 W. 104  
 Lamont, J. R. 1 c 1 Third pl.,  
 Bklyn.  
 Lance, H. B. 4 c 427 Walton ave.

Landauer, L. L. 4 c 430 W. 118  
 Landers, M. H. 2 s 614 W. 113  
 Landesman, I. L. 2 m 309 E. 4  
 Landsman, I. J. 2 m 15 E. 113  
 Landsman, S. 1 s 445 W. 40  
 Lane, C. J. 2 l 26 E. 109  
 Langdon, S. ph 700 Park ave.  
 Lange, M. R. 4 c 61 E. 86  
 Lanier, La F., Jr. sp s  
 437 W. 123

La Porte, M. D. 4 t  
 Larkin, A. G. 1 m 363 W. 19  
 Larkin, M. J. ph St. Joseph's  
 Seminary, Yonkers, N. Y.  
 La Roche, P. B., Jr. 3 l  
 704 Madison ave.

Larter, M. L. sp b 45 Hillside  
 ave., Newark, N. J.

Lasell, G. M. pl 417 W. 118  
 Lasher, F. H. 2 m 383 E. 14,  
 Flatbush, Bklyn.

Latham, M. E. p 417 W. 148  
 Lathrop, H. W. 4 m 143 W. 61  
 Lathrope, G. H. 4 m 317 W. 58  
 Latta, J. B. 3 m 325 W. 58  
 Lau, R. J. ph 357 Hunterdon,  
 Newark, N. J.

Laufer, A. M. pl 707 E. 6  
 Laughlin, H. C. ph 530 W. 123  
 Lavell, C. F. pl  
 408 Manhattan ave.

Lawlor, M. J. 2 m  
 Lawrence, C. 2 l 363 W. 123  
 Lawrence, G. A. 1 l  
 784 Park ave.

Lawrence, L. M. 3 t  
 1230 Amsterdam ave.

Lawrie, H. N. 2 s 310 W. 107  
 Lawson, C. F. ph 203 W. 109  
 Lawton G. E. ph 45 First ave.,  
 Mt. Vernon, N. Y.

Lawton, M. F. 4 c  
 224 Willoughby ave., Bklyn.

Lawyer, L. R. gr t 215 W. 140  
 Lay, S. E. 1 b 2137 Fifth ave.

Lazinsk, A. 3 s 120 E. 76  
 Leary, R. W. ph 38 W. 94  
 Leavitt, E. J. 4 m 461 W. 164

Leber, O. H. 4 c 928 Bloomfield,  
 Hoboken, N. J.

Lebowitz, E. F. 2 m 23 E. 114  
 Lebowitz, W. 2 s 183 Second

Lederer, A. M. 3 l 430 W. 118  
 Lederer, M. 2 m 164 Lorimer,  
 Bklyn.

Lee, A. 2 b 320 Manhattan ave.  
 Lee, H. 1 s 247 W. 104  
 Lee, J. D. 3 l 247 W. 104

- Lee, M. ph* 1230 Amsterdam ave.  
*Lee, M. D. 3 b* 247 W. 104  
*Lee, W. R., Jr. 2 m* 328 W. 56  
*Leers, H. 4 b* 401 Straight,  
 Paterson, N. J.  
*Leete, A. R. 1 b* 139 E. 21  
*Le Fevre, F. E. 2 l* 55 W. 92  
*Leggett, N. B. 4 m* 143 W. 61  
*Lehman, E. H. ph* 54 E. 59  
*Leibenderfer, R. J. 1 l* 418 W. 118  
*Leland, A. P. 3 b* 1230 Amsterdam ave.  
*Leland, F. 3 b* 943 Lexington ave.  
*Lemmon, F. A. 3 t* 528 W. 123  
*Leslie, C. T. 3 m* 261 Greene ave.,  
 Bklyn.  
*Levant, H. L. 3 m* 645 St. Ann's ave.  
*Levene, S. A. 2 m* 189 Clinton  
*Leventritt, L. L. 1 c* 34 W. 77  
*Levin, C. 3 m* 165 Broome  
*Levin, H. 1 s* 216 E. 14  
*Levine, B. M. 2 m* 1567 1st ave.  
*Levison, J. J. 1 m* 168 Clinton  
*Levy, A. S., Jr. 1 c* 24 W. 43  
*Levy, B. M. 3 c* 224 E. 118  
*Levy, E. L. 3 b* 122 E. 76  
*Levy, G. 4 b* 85 and Bway.  
*Levy, H. 3 m* 408 W. 58  
*Levy, H. A. p* 213 E. 107  
*Levy, J. 1 l* 18 W. 115  
*Levy, J. 4 m*  
*Lewin, J. C. 1 s* 101 N. Main,  
 Port Chester, N. Y.  
*Lewine, H. S. 1 c* 813 Lexington ave.  
*Lewine, R. 4 s* 16 E. 120  
*Lewinson, L. J. 4 s* 129 E. 95  
*Lewis, A. H. gr t* 2231 Bway.  
*Lewis, B. L. 2 b* 331 So. 1st ave.,  
 Mt. Vernon, N. Y.  
*Lewis, C. C. sp s* 439 W. 123  
*Lewis, H. G. 3 s* 6 E. 32  
*Lewis, H. T. 2 m* 12 W. 65  
*Lewis, I. E. 4 b* 206 W. 103  
*Lewis, M. E. 3 m*  
*Lewis, M. W. 2 l* 430 W. 118  
*Lewis, R. C. 3 c* 310 W. 107  
*Lewisohn, J. A. 3 c* 9 W. 57  
*Lewisohn, L. ph* 517 W. 124  
*Lewy, H. M. 3 l* 72 and Bway.  
*Lexow, C. 4 b* 501 W. 120  
*Lichten, D. E. 4 b* 1211 Madison ave.  
*Lichtenberg, J. C. A. A. 1 s* 60 W. 129  
*Lichtenberger, J. P. pl* 41 W. 119  
*Lichtenstein, G. 1 m* 58 E. 107  
*Lichtig, A. 2 l* 373 W. 116  
*Lieb, C. C. 2 m* 317 W. 57  
*Lieber, T. A. 1 c* 512 W. 149  
*Lilienthal, F. P. 2 b* 60 W. 129  
*Linaberry, F. R. 1 c* 501 W. 122  
*Lindeman, H. E. 2 m* 129 W. 93  
*Lindenberger, J. H. 3 l* 417 W. 118  
*Lindsay, G. 3 m* 207 W. 81  
*Lindsay, J. W. 4 c* 298 Bway.  
*Lindsley, G. L. 2 s* 517 Manhattan ave.  
*Lipke, J. 2 t* 423 Sixth  
*Lippe, V. S. 3 l* 2 Beekman pl.  
*Lippman, M. J. 1 m* 297 Broome  
*Lippmann, F. B. 2 c* 113 E. 81  
*Lipschutz, J. M. 3 m* 204 E. Bway.  
*Lipschutz, S. S. 1 m* 247 Clinton  
*Lisman, O. C. 1 s* 165 Park ave.,  
 Mt. Vernon, N. Y.  
*Litchfield, R. B. 2 s* 203 Clinton, Bklyn.  
*Littell, E. G. 4 m* 635 Park ave.  
*Little, J. M. 1 s* 504 W. 112  
*Lobo, A. 4 s* 237 W. 71  
*Lock, M. 3 b* 530 W. 123  
*Lockwood, F. W. 2 s* 66 Sum-  
 mit ave., Jersey City, N. J.  
*Lockwood, H. R. 1 s* 8 W. 76  
*Loder, I. H. 2 s* 461 So. Main,  
 Port Chester, N. Y.  
*Loening, R. R. 4 c* 152 W. 76  
*Loew, C. E. 2 l* 501 W. 120  
*Loew, F. 2 b* 10 Amsterdam ave.  
*Logan, J. H. ph* 243 E. 83  
*Logan, L. p* 2 W. 72  
*Lohman, W. H. 4 m* 143 W. 61  
*Loines, H. sp b* 26 Garden pl.,  
 Bklyn.  
*London, J. F. 4 t* 309 Henry  
*London, M. 3 c* 64 W. 115  
*Long, J. McM. 4 m* 144 W. 65  
*Long, M. C. sp c* 59 W. 44  
*Long, W. B. 3 c* 408 W. 146  
*Longacre, G. F. gr t* 238 W. 73  
*Longenecker, B. F. 1 l* 902 West End ave.  
*Longwell, R. A. 1 s* 413 W. 117  
*Loomis, J. H. 4 b* 414 W. 118  
*Loomis, L. R. pl* 414 W. 118  
*Lord, M. E. 1 b* 80 Willoughby,  
 Bklyn.  
*Lorenzo, F. A. 4 m* 417 W. 117  
*Loshe, L. D. ph* 419 W. 118  
*Lotz, J. H. pl* 41 E. 69  
*Loucks, E. M. 1 l* 314 W. 114  
*Love, T. R. 2 m* 317 W. 119

Lovejoy, F. W., Jr. sp s  
101 Gates ave., Bklyn.  
Loveless, A. L. 2 s 604 W. 115  
Loveman, H. S. 3 s 210 W. 139  
Low, E. I. 2 l 4 W. 53  
Loud, E. F. ph 364 W. 118  
Lublin, C. 3 c 160 W. 84  
Lucas, D. R. 1 m 7 W. 56  
Lucas, R. J. 3 s Heath ave.,  
Kings Bridge, N. Y.  
Lucey, M. H. 4 t 306 W. 115  
Ludlow, T. W. f a  
52 Morningside ave.  
Luery, M. 1 m 2460 Seventh ave.  
Luithlen, W. 2 s 709 Grand,  
Bklyn.  
Lukens, E. F. 1 c 416 W. 118  
Lund, F. N. 1 s 4 W. 130  
Luther, E. C. 4 s 430 W. 118  
Lyall, P. W. 3 b 41 Prospect,  
Summit, N. J.  
Lyford, E. B. 3 c 354 W. 120  
Lynn, H. H. E. 1 s 162 W. 96  
Lyon, E. C., Jr. 2 m 368 W. 55  
Lyon, E. E. 3 t Christ Church  
Rectory, Yonkers, N. Y.  
Lyon, E. N. 4 t 66 W. 96  
Lyon, G. J. 4 s 52 W. 94  
Lyon, R. 4 b 415 W. 118  
Lyon, W. W., Jr. 1 s 157 W. 92  
Lyons, A. pl 224 Carroll, Bklyn.  
  
McAfee, H. 3 t 419 W. 118  
McAneny, L. G. 4 c 410 W. 115  
McBaine, J. P. sp l 151 W. 79  
McBride, J. J. 2 l 213 E. 38  
McCabe, E. H., Jr. 2 s 300 W. 112  
McCarthy, C. D. 2 s 312 Seventh,  
Bklyn.  
McCarthy, T. 2 c 137 W. 120  
McCaskell, G. W. sp s 112 W. 72  
McClain, H. G. 2 s 122 and  
Amsterdam ave.  
McClave, D. 1 s 136 W. 58  
McClement, T. B. pl 700 Park ave.  
McClintock, H. L. 1 l 144 N.  
Fulton ave., Mt. Vernon, N. Y.  
McClure, W. C. 1 s 22 W. 49  
McCollom, H. C. ph  
517 Manhattan ave.  
McCook, J. A. ph 10 W. 54  
McCormack, W. G., Jr. 2 m  
1062 E. 176  
McCormick, R. M. 4 b  
1230 Amsterdam ave.  
McCoy, T. C. 3 m 112 W. 61  
McCready, R. L., Jr. 1 m  
228 W. 127

McCroskery, J. H. 3 m  
316 Hudson Blvd.,  
Union Hill, N. J.  
McCulloch, C. C., Jr. p  
39 Whitehall  
McCurdy, E. S. 3 s 34 W. 57  
McDermott, J. Z. 3 m 120 W. 64  
McDonald, A. S. 3 s  
1272 Amsterdam ave.  
McDonald, E. O. 2 c 103 W. 32  
McDonald, F. P., Jr. 4 c  
103 W. 32  
McDonald, J. E. W. 1 l  
417 W. 117  
McDowell, A. J. 2 s 310 W. 72  
McDowell, L. E. 3 t  
1230 Amsterdam ave.  
McDowell, O. V. sp b 2783 Bway.  
McEvoy, E. 4 t 2323 Seventh ave.  
McGahey, M. W. 3 t  
1230 Amsterdam ave.  
McGee, L. 2 l 454 Halsey, Bklyn.  
McGehee, A., Jr. 1 l 430 W. 118  
McIlvaine, J. H. sp s 47 W. 47  
McIntyre, M. 2 s 345 West End  
ave.  
McKallagat, P. L. 2 m 143 W. 61  
McKay, M. E. 3 t  
1230 Amsterdam ave.  
McKay, M. I. sp t 153 E. 62  
McKee, D. 3 l 237 W. 24  
McKee, E. Du B., 2 b 557 W. 124  
McKenna, B. C. 1 l 233 W. 70  
McKenzie, D. A. 3 c 57 Sherman  
ave., Newark, N. J.  
McKinlay, C. M. 1 c Tenafly, N. J.  
McKinney, F. W. 3 c 415 W. 117  
McKinney, I. ph 23 E. 88  
McLane, F. M. 1 b 3135 Bway.  
McLaughlin, J. B. 1 l 2778 Bain-  
bridge ave., Fordham, N. Y.  
McLaughlin, P. 1 b 254 W. 136  
McLaughlin, T. D. 2 s 519 W. 123  
McLaughlin, W. J. 3 l 542 W. 113  
McLean, E. 4 b 31 Highland  
ave., Jersey City, N. J.  
McLewy, H. 3 l 72 and Bway.  
McMahon, A. 2 t 306 E. Bway.  
McMorrow, C. P. 2 s 63 E. 93  
McNeely, E. pl  
1230 Amsterdam ave.  
McNenney, C. E. 4 m 116 Mercer,  
Jersey City, N. J.  
McNulty, E. T. 2 m  
441 McDonough, Bklyn.  
McQuade, B. F. ph 340 E. 12  
McSheehy, M. T. 4 m  
MacCaslin, E. E. gr t 418 W. 118



- MacColl, G. B.* 2 b 410 W. 115  
*MacColl, J.* 2 b 410 W. 115  
*MacCracken, H. N.* ph  
 University Heights  
*MacDonald, A. F.* 3 m 126 W. 65  
*MacDonald, J. J.* sp m  
 846 Teasdale pl.  
*MacEwan, E. L.* 1 b 341 *Summit*  
*ave., Jersey City, N. J.*  
*MacGregor, R. S.* pl 338 W. 46  
*MacIntyre, C. B.* 3 m 146 W. 12  
*MacKallor, DeW. C.* 2 s 160 W. 96  
*MacKenzie, A.* 3 c 604 W. 114  
*MacLane, D. B.* ph  
 700 Park ave.  
*MacLennan, C.* sp t  
 1230 *Amsterdam ave.*  
*MacMahon, E. W.* 1 l  
 57 *Lafayette ave., Bklyn.*  
*MacMahon, M. G.* sp b  
 109 E. 26  
*MacMurray, J. Van A.* 1 l  
 331 W. 76  
*MacVay, A. P.* ph 153 E. 62  
*Mabey, J. C.* 3 m 59 W. 62  
*Macbeth, R. W.* 2 c  
 834 Prospect pl., Bklyn.  
*Macdonald, C.* 2 t 127 W. 87  
*Macdonald, C. D.* 2 c  
 Ward's Island, N. Y.  
*Macdonald, E. B.* sp b  
 Ward's Island, N. Y.  
*Macdonald, M. P.* 1 b  
 803 *Madison ave.*  
*Machlin, M.* sp m 63 Perry  
*Mackintosh, P. D.* ph  
 700 Park ave.  
*Maclure, M. F.* 1 m 506 W. 57  
*Macrae, R. M.* 2 m 22 W. 60  
*Maddock, C. L.* 3 t 439 W. 123  
*Maeder, E. L.* 3 t 304 E. 120  
*Maeder, J. S.* 4 c 304 E. 120  
*Mageworth, J. O.* ph 2825 *Decatur*  
*ave., Bedford pk., N. Y.*  
*Mahan, L. E.* 3 l 160 W. 86  
*Malcolm, J. D.* 4 m 313 W. 112  
*Malcomson, A. S.* 2 s  
 Orange, N. J.  
*Mallalieu, W. C.* 1 s  
 90 *St. Mark's ave., Bklyn.*  
*Malmberg, T. J.* W. 4 c  
 352 *Fourth ave.*  
*Mandelbaum, H. D.* 1 m  
 941 *Madison ave.*  
*Mangan, J. M.* 2 l 519 W. 123  
*Marble, R. N., Jr.* 3 s 430 W. 118  
*Marcus, B. N.* 2 s 121 E. 65  
*Marcus, C.* 1 c 72 W. 91  
*Marcus, M. V.* 1 c  
 1307 *Madison ave.*  
*Marcus, S. S.* 1 l  
 1737 *Washington ave.*  
*Margulies, A. C.* 3 m  
 423 *Fiftieth, Bklyn.*  
*Marker, G. E.* gr t 528 W. 123  
*Markley, E. H.* 1 b 109 W. 90  
*Markowitz, A. H.* 2 m 25 *Clinton*  
*Marks, B. F.* 2 b  
 1034 *Lexington ave.*  
*Marks, L.* t 234 E. 68  
*Marrin, M. J. A.* 1 b 233 W. 45  
*Marsh, H. D.* ph  
 949 *Amsterdam ave.*  
*Marten, C.* 4 t  
 1272 *Amsterdam ave.*  
*Marten, W. S.* 4 t  
 1272 *Amsterdam ave.*  
*Martin, A.* 3 t 419 W. 118  
*Martin, F.* sp s W. Orange, N. J.  
*Martin, G. F.* 1 s  
 1474 *Washington ave.*  
*Martin, L. A., Jr.* p 824 *Bloom-*  
*field, Hoboken, N. J.*  
*Martin, N. B.* 3 m 465 W. 57  
*Martin, N. E.* S. 1 l  
 1270 *Amsterdam ave.*  
*Martin, R.* 3 s 310 W. 107  
*Martinez y Martinez, I. F.* 1 l  
 4 W. 92  
*Martland, H. S.* 3 m 1138 *Broad,*  
*Newark, N. J.*  
*Martland, R. B.* 1 c 1138 *Broad,*  
*Newark, N. J.*  
*Marwick, R. H.* 2 c 310 W. 154  
*Marx, H.* 3 l 49 W. 114  
*Mason, H. H.* 4 m 317 W. 58  
*Massee, W. W.* ph 206 W. 122  
*Mather, I. E.* 3 t 44 *Barrow*  
*Matheson, K. G.* ph 3136 *Bway.*  
*Mathews, J.* 3 t  
 1230 *Amsterdam ave.*  
*Mathews, L. E.* 3 b 36 *Kearney,*  
*Newark, N. J.*  
*Matthews, C. E.* 3 s 421 Mt.  
 Prospect ave., Newark, N. J.  
*Matthews, W. McL.,* 2 l  
*Maves, A. E.* 1 c 567 W. 171  
*Maxfeld, C. A.* ph 141 W. 47  
*Maxson, A. R.* 3 t 500 W. 121  
*Maxwell, C. R.* 3 t 420 W. 118  
*May, C. A.* sp c 464 *Classon*  
*ave., Bklyn.*  
*Mayer, F.* 2 b 41 E. 72  
*Mayer, H.* 4 t 68 E. 102  
*Mayer, L. W.* 4 s 77 E. 79

Mayer, MacD. 1 s 104 St. Mark's  
ave., Bklyn.  
Maynard, E. T. 2 c 1414 Pacific,  
Bklyn.  
Mayo-Smith, L. 2 b 305 W. 77  
Meacham, B. E. 1 t  
163 St. Nicholas ave.  
Mead, B. L. pl 211 Clinton  
Mead, H. L. 3 s 419 W. 118  
Mead, N. P. pl 174 and  
Jerome ave.  
Mead, R. H. 2 s 190 N. 6,  
Newark, N. J.  
Mead, T., Jr. 3 s 190 N. 6,  
Newark, N. J.  
Meade, R. P. 2 t 126 E. 19  
Medalie, G. Z. 3 c 20 E. 132  
Meeks, E. V. 3 s  
65 Central pk., W.  
Mehler, G. J. 4 m 441 W. 57  
Meinzer, M. S. 3 m  
South Amboy, N. J.  
Meisel, A. W. 1 l 604 W. 115  
Melcer, R. H. 2 s 33 W. 45  
Melniker, A. A. 3 l  
28 E. 27, Bayonne, N. J.  
Meloney, L. F. 3 m  
Clifton, N. J.  
Mendelson, S. 2 c 61 E. 123  
Menges, C. P. 4 s 419 W. 47  
Menocal, J. G. 1 s 416 W. 118  
Mercer, G., Jr. 3 l 30 W. 72  
Meriam, J. L. gr t 372 W. 120  
Merklinger, T. E. 2 s 156 Penn-  
sylvania ave., Newark, N. J.  
Merrick, G. C. 2 s 457 W. 123  
Merrill, A. E. 4 t  
1230 Amsterdam ave.  
Merrill, G. A. 3 m 128 W. 112  
Merriman, E. A. sp b 600 W. 125  
Merritt, J. H. 2 s  
Tarrytown, N. Y.  
Merritt, J. I. 1 s 614 W. 113  
Merritt, L. R. 3 s 501 W. 120  
Mertelmeyer, G. C. A. p  
3627 3d ave.  
Meserve, E. E. p 506 W. 147  
Messer, I. C. gr t 507 W. 124  
Messer, W. S. 3 c 855 Pavonia  
ave., Jersey City, N. J.  
Mestre, H. V. U. 2 s 303 W. 84  
Metcalfe, L. M. 4 b 342 E. 15  
Mettler, A. J. 3 s 310 W. 115  
Metzenthin, W. E. ph 419 W. 117  
Meyer, A. W. p 524 W. 123  
Meyer, F. A. 3 b  
Park Hill,  
Yonkers, N. Y.  
Meyer, G. H. 4 m 342 W. 58

Meyer, H. A. 3 m  
19 St. James pl., Bklyn.  
Meyer, H. F. 1 s 346 E. 53  
Meyer, J. J. 4 m 60 W. 129  
Meyer, M. A. ph 430 W. 118  
Meyer, R. B. 3 l Kingsbridge rd.  
Michael, G. W. ph  
182 East End ave.  
Michael, J. ph 208 W. 129  
Michael, L. G. p 419 W. 118  
Michaelis, W. 1 l  
591 Lexington ave.  
Micheloni, L. A. 1 m  
903 Sixth ave.  
Miles, G. F. 4 s 222 W. 23  
Miller, B. M. 3 t 321 W. 118  
Miller, C. D. 2 l 26 W. 37  
Miller, C. E. 1 c 621 Bramhall  
ave., Jersey City, N. J.  
Miller, E. C. 2 c 42 Herman,  
Glen Ridge, N. J.  
Miller, E. I. pl 430 W. 118  
Miller, F. L. 1 l 521 W. 123  
Miller, G. E. 1 m 324 W. 56  
Miller, J. 1 s 415 W. 117  
Miller, L. 1 m 15 Suffolk  
Miller, L. A. 4 b 78 Bway.,  
White Plains, N. Y.  
Miller, M. C. 3 t 17 E. 124  
Miller, M. D. pl Lawrence, L. I.  
Miller, M. E. 4 b 64 Pennsylv-  
vania ave., Bklyn.  
Miller, R. M. 1 c  
591 West End ave.  
Miller, T., Jr. 2 s 415 W. 117  
Miller, W. N. 2 s 435 W. 123  
Miller, W. T. 1 c 604 W. 114  
Millett, D. A. 2 l 61 W. 74  
Millett, K. B. 1 s 250 W. 88  
Mills, H. M. 4 t 600 W. 125  
Mills, R. Van A. 2 s 42 W. 83  
Mills, W. M. 1 m 408 W. 58  
Millward, J. B. 2 s  
92 Morningside ave.  
Miltenberger, G., Jr. 2 s  
418 W. 118  
Miner, L. L. 4 m 135 E. 42  
Miningham, W. D. 2 m  
113 Sussex, Jersey City, N. J.  
Minor, M. L. p 242 W. 104  
Mitchell, C. von E. 1 c 24 W. 10  
Mitchell, J. P. ph 419 W. 118  
Mitchell, W. M. 3 c 216 E. 61  
Mitchell, W. S. 2 s 24 W. 10  
Mittendorf, A. D. 4 m  
140 Madison ave.  
Mixsell, R. B. 1 m 153 W. 61  
Mockridge, O. A. 2 m 59 W. 62

- Moeckel, C. R. 1 m 153 W. 61  
 Moegling, B. A. 1 s 539 Manhattan ave.  
 Moeller, H. N. 4 m 341 W. 57  
 Moeller, P. 4 c 6 W. 75  
 Moën, M. W. 4 b 606 W. 115  
 Moffit, A. R. 4 m 129 W. 61  
 Mogulesko, J. L. 3 m 125 E. 101  
 Mohr, A. K. Mrs. 2 t 355 Lenox ave.  
 Monks, W. D. 1 s 351 S. Third  
 ave., Mt. Vernon, N. Y.  
 Monty, A. H. 2 m 927 Park ave.  
 Moon, A. W. gr t 500 W. 123  
 Mooney, H. R. 3 c 243 W. 127  
 Mooney, M. A. 3 t 82 Morton  
 Moore, B. V. 3 l 310 W. 107  
 Moore, E. M. 3 t 1230 Amsterdam ave.  
 Moore, G. A. 3 t 521 W. 123  
 Moore, G. G., Jr. 2 c 833 Madison ave.  
 Moore, H. E. ph 415 W. 118  
 Moore, J. H. ph 8 W. 119  
 Moore, R. C. B. 1 c Chatham, N. J.  
 Moore, S. La M., Jr. 1 s 116 W. 71  
 Moore, T. B. pl 420 W. 118  
 Moorhead, R. L., Jr. 4 m 387 Bergen, Bklyn.  
 Mora, E. J. 1 s 1260 Amsterdam ave.  
 Morales, L. 4 s 220 W. 107  
 More, D. H. 1 m 114 W. 65  
 Moretsky, H. M. 2 m 240 W. 10  
 Morgan, C. E. 4 b 1173 Bushwick ave., Bklyn.  
 Morgan, P. H. 1 l 540 W. 145  
 Morgenthau, B. F. 3 b 248 W. 103  
 Morgenthau, F. F. 4 b 155 W. 77  
 Morgenthau, Mrs. H. sp b 33 W. 74  
 Moritz, B. 1 b 1230 Amsterdam ave.  
 Morrall, C. F. 2 c 420 W. 118  
 Morrill, P. P. 4 t 524 W. 123  
 Morris, A. B. 2 s 190 W. 100  
 Morris, A. H. 2 l 39 Hart, Bklyn.  
 Morris, H. I. 2 s 678 Macon, Bklyn.  
 Morris, M. sp t 98 Morningside ave.  
 Morrison, E. R. 3 t 414 W. 118  
 Morrow, R. R. 3 t Summit, N. J.  
 Morrow, W. C. 1 l 72 Morningside ave.  
 Morsch, H. W. 4 m 308 Ellery, Bklyn.  
 Morse, L. B. pl 17 Lexington ave.  
 Morton, C. E. 2 m 318 W. 56  
 Mosenthal, W. J. 1 m 181 W. 75  
 Moses, A. 2 s 1042 1st ave.  
 Moses, J. ph 318 E. 13  
 Moses, J. G. 2 l  
 Moskowitz, H. ph 76 St. Mark's pl.  
 Mosler, J. W. sp c 373 Bway.  
 Moss, O. sp b 18 W. 131  
 Mott, I. 3 b 221 W. 123  
 Mott, W. W. 3 c 541 W. 124  
 Mount, R. T. 1 l 140 W. 92  
 Mount, W. B. 3 m 138 W. 64  
 Muir, D. D., Jr. 1 s 25 Broad  
 Mullen, C. R. 1 s 419 W. 118  
 Muller, A. F. R. 1 s 550 W. 125  
 Muller, A. M. 2 s 109 W. 124  
 Müller, J. sp s 103 Oak, Bklyn.  
 Munker, M. J. 4 c 1 W. 92  
 Munroe, E. L. 3 b 262 W. 122  
 Murn, C. J. 1 m 16 Green, Paterson, N. J.  
 Murphy, E. J. 4 m 773 Carroll, Bklyn.  
 Murphy, E. N. 3 t 11 Wood pl., Yonkers, N. Y.  
 Murphy, F. F. 2 t 340 Beech, Richmond Hill, N. Y.  
 Murphy, J. L. sp s 19 E. 83  
 Murray, B. L. p 537 W. 149  
 Murray, L. S. 3 b 1230 Amsterdam ave.  
 Muriha, M. W. 2 b 539 W. 148  
 Myers, A. S. 2 c 309 W. 70  
 Myers, G. 1 l 275 E. 7  
 Myers, J. 4 c 309 W. 70  
 Myers, W. L. ph 64 W. 95  
 Myerson, A. 1 m 415 W. 57  
 Myres, M. J. 4 m 59 E. 92  
 Nagle, G. A. 2 l Hollis, N. Y.  
 Nammack, E. F. ph 560 W. 149  
 Narins, W. 3 m 33 Market  
 Narwood, H. M. sp m 424 W. 57  
 Nason, A. H. ph 526 W. 123  
 Nathan, C. 1 c 35 W. 86  
 Nathan, E. M. 2 c 35 W. 86  
 Nathan, M. ph 61 W. 128  
 Naylor, G., Jr. 2 s 400 W. 124  
 Neary, F. W. 2 l 165 E. 49  
 Nebeker, A. C. 3 s 243 W. 120  
 Neef, F. E. 4 m 117 W. 63  
 Neer, F. Y. 3 m 85 Hamilton  
 ave., Paterson, N. J.  
 Nelson, A. P. ph 700 Park ave.  
 Nelson, J. F. 3 m 816 E. 145

Nelson, R. A. *sp b* 510 W. 143  
 Nemoitin, J. 3 *m* 186 Madison  
 Nesbit, M. O. 4 *t* 88 Buena Vista  
 ave., Yonkers, N. Y.  
 Neugass, S. 4 *s* 257 W. 132  
 Neuhoof, H. 3 *m* 235 E. 86  
 Neumann, H. *ph* 33 W. 114  
 Neus, E. *f a* 133 E. 84  
 Neuwelt, L. 3 *m* 31 W. 111  
 Nevins, D. R. 4 *b* 682 President, Bklyn.  
 Newbery, C. A. 1 *s* 202 Clermont ave., Bklyn.  
 Newburger, H. W. 4 *c* 420 W. 118  
 Newell, W. 3 *c* 354 W. 120  
 Newland, A. M. 2 *b* 550 W. 113  
 Newman, R. 3 *m* 68 Suffolk  
 Newpher, H. 3 *t* 457 W. 123  
 Newton, E. R. 3 *s* Haverstraw, N. Y.  
 Nicholas, E. 3 *t* 37 Morningside ave.  
 Nichols, C. 3 *c* 413 So. Bway.,  
 Yonkers, N. Y.  
 Nicoll, G. L. 3 *s* 606 W. 113  
 Nieder, P. G. 2 *s* 430 W. 118  
 Niemann, E. 2 *s* 301 E. 10  
 Nies, M. A. 2 *b* 6 Auburn,  
 Paterson, N. J.  
 Nisselson, M. 3 *m* 111 Canal  
 Noble, F. C. 3 *c* 48 W. 73  
 Noble, U. A. 4 *m* 139 W. 64  
 Noehren, A. H. 3 *m* 169 W. 140  
 Nohowec, F. P. 2 *l* Sayville, L. I.  
 Nolthenius, P. F. 2 *s* 430 W. 118  
 Norris, E. M. 2 *s* 430 W. 118  
 Norris, G. 1 *c* 430 W. 118  
 Norris, J. S. *ph* 139 W. 91  
 Norsworthy, H. R. 4 234 W. 122  
 Northam, A. B. 3 *t* 1230 Amsterdam ave.  
 Norton, H. Le R. 1 *m* 257 Greene ave., Bklyn.  
 Novotny, C. J. 2 *l* 1260 Amsterdam ave.  
 Nusim, M. 3 *s* 284 E. Houston  
 Nutt, R. E. 4 *b* 1230 Amsterdam ave.  
 Nutting, R. W. *sp s* 204 Clermont ave., Bklyn.  
 Nye, F. I. 3 *b* 306 W. 94  
 Oakley, E. J. 4 *t* 293 Lenox ave.  
 Oakley, F. H. 3 *t* 557 W. 124  
 Oberlander, H. C. 2 *s* 233 E. 85  
 Oberwager, J. 2 *m* 34 First

O'Brien, E. J. 1 *l* 358 St. Ann's ave.  
 O'Brien, S. 4 *t* Weehawken, N. J.  
 O'Connell, E. J. 2 *c* 340 Dean, Bklyn.  
 O'Connell, F. L. 4 *c* 8 Convent ave.  
 O'Connor, J. C. 4 *m* 437 W. 59  
 O'Connor, D. J., Jr. 1 *s* 30 W. 60  
 O'Crowley, C. R. 4 *m* 12 Lom-  
 bardy, Newark, N. J.  
 Odencrantz, L. C. 1 *b* 271 W. 122  
 Odencrantz, T. C. 4 *t* 5 W. 118  
 Oesterlein, C. R. 1 *b* 19 W. 129  
 Ohman, C. H. 1 *m* 415 W. 57  
 O'Leary, W. J. 4 *m* 12 Lom-  
 bardy, Newark, N. J.  
 Olidort, L. P. *sp m* 60 E. 120  
 Oliver, B. 3 *t* 318 W. 121  
 Oliver, J. W. 3 *t* 5 W. 125  
 O'Loughlin, G. S. 1 *l* 521 W. 149  
 Olsen, R. B. *pl* 193 St. Nicholas ave.  
 Olshausen, B. A. *p* 72 Morningside ave.  
 Olyphant, R. M., Jr. 2 *s* 16 E. 52  
 O'Neil, L. F. D. 2 *s* 526 W. 123  
 O'Neil, J. S. *sp l* 430 W. 118  
 Oppenheimer, E. D. 1 *m* 56 E. 66  
 Oppenheimer, F. *pl* 31 W. 74  
 Oppenheimer, F. G. 2 *m* 20 W. 71  
 O'Regan, J. J. *gr t* 164 E. 80  
 O'Reilly, J. J. *ph* St. Joseph's  
 Seminary, Yonkers, N. Y.  
 Orlando, J. 3 *m* 337 E. 106  
 Ornduff, I. C. 3 *t* 500 W. 123  
 Ornstein, M. *p* 147 W. 71  
 Osborne, E. R. 3 *t* 364 W. 118  
 Osburn, R. C. *p* 510 W. 124  
 O'Shea, A. L. 1 *l* 200 W. 70  
 Osk, M. L. *pl* 4 W. 115  
 Osnato, M. 2 *m* 330 E. 13  
 Otis, W. B. *ph* 130 W. 109  
 Ott, A. H. 2 *t* 1972 3rd ave.  
 Ott, C. A. 2 *s* 1972 3rd ave.  
 Otten, L. F. 3 *c* 250 W. 88  
 Ottenberg, I. 4 *c* 141 W. 123  
 Ottenberg, R. 3 *m* 141 W. 123  
 Otto, W. G. C. 4 *c* 929 Bloom-  
 field, Hoboken, N. J.  
 Owen, K. B. 2 *t* 1230 Amsterdam ave.  
 Owen, K. D. 3 *s* 70 Christopher,  
 Montclair, N. J.  
 Owen, M. 3 *t* 439 W. 123  
 Owen, M. G. 3 *t* 29 E. 29



- Owen, M. S. 1 m 143 W. 61  
 Owen, W. R., Jr. 1 s 530 W. 123
- Paddock, B. W. 4 m 317 W. 58  
*Paddock, J. 2 b 141 W. 70*  
 Page, R. G. pl 364 W. 116  
 Paley, H. E. fa 23 E. 108  
 Palliser, G. A. 1 s  
     Dobbs Ferry, N. Y.  
*Palliser, H. L. 3 b*  
     Dobbs Ferry, N. Y.
- Palma, J. E. sp l  
     14 Morningside ave.
- Palmer, A. D. 2 l  
     400 Manhattan ave.
- Palmer, A. P. 2 s 417 W. 118  
*Palmer, E. R. 1 b*  
     2058 Valentine ave.
- Palmer, F. L. W. 1 s 16 W. 38  
 Palmer, W. G. 1 c  
     320 Manhattan ave.
- Panaroni, A. G. ph 334 W. 42  
*Panayotova, D. sp t*  
     1268 Amsterdam ave.
- Paoli, R. D. 1 l 159 E. 74
- Pardee, C. A., Jr. 1 m  
 Parham, F. E. 3 l 421 W. 117  
*Parish, S. G. sp t*  
     1230 Amsterdam ave.
- Park, E. A. 3 m 317 W. 58  
 Parker, A. 2 l 208 W. 82  
 Parker, F. L. 3 s 500 W. 123  
 Parker, L. A. 3 m 112 W. 61  
*Parker, L. H. 3 b 438 W. 57*  
*Parker, M. A. 4 b*  
     797 Madison ave.
- Parker, R. L. ph 67 and Second*  
     ave., Bklyn.
- Parker, W. D. 1 l 526 W. 123  
*Parmelee, S. sp t 449 W. 123*  
 Parr, H. L. 4 s Yonkers, N. Y.  
 Parris, H. A. St. A. sp t  
     256 W. 124
- Parrott, A. B. 4 t*  
     1230 Amsterdam ave.
- Pasch, A. K. 2 t 417 W. 118*
- Pateron, M. H. sp t*  
     1230 Amsterdam ave.
- Patten, J. M. 3 t*  
     1230 Amsterdam ave.
- Patterson, A. McD. 2 l  
     305 W. 112
- Patterson, D. L., Jr. pl  
     507 W. 124
- Patterson, S. B., Jr. 2 s  
     430 W. 118
- Paul, F. H. J. gr t 95 Mott ave.,  
     L. I. City
- Payne, B. R. gr t 509 W. 124  
 Payson, H. 3 s 627 W. 115  
 Peabody, C. S. 2 s 28 Monroe pl.,  
     Bklyn.
- Peabody, J. L. sp s 13 Park ave.  
 Pearce, C. A. 1 s 21 W. 129  
 Pease, M. C., Jr. 2 m 46 W. 83  
 Peck, H. M. 3 s 49 W. 44  
*Peck, J. E. 4 t 527 W. 124*  
 Peck, R. C. gr t  
     1272 Amsterdam ave.
- Peckham, R. 2 l 457 W. 123  
 Pecorini, A. ph 700 Park ave.  
*Peiffer, E. R. 4 b*  
     1230 Amsterdam ave.
- Peiser, D. W. 1 c 52 E. 80  
 Pelton, R. J. sp s 254 Mill,  
     Poughkeepsie, N. Y.
- Pennoyer, C. H. ph 215 S. Third  
     ave., Mt. Vernon, N. Y.
- Pentz, J. B. 4 m  
     New Brighton, S. I.
- Percy, H. F. 4 s 503 W. 124  
*Perkins, E. M. 1 b 141 Highland,*  
     Port Chester, N. Y.
- Perkins, M. A. p 338 W. 56*  
 Perrin, E. B., Jr. 1 l  
 Perrine, H. 1 c  
     820 West End ave.
- Perry, A. C. F. 1 s Aqueduct ave.  
     Fordham Heights, N. Y.
- Perry, H. C. 1 b*  
     440 West End ave.
- Perry, R. M. 2 c 530 W. 123  
 Peter, G. W. 2 c 825 E. 161  
*Peters, I. L. pl 5 Hamilton ter.*  
 Peters, J. D. 4 m  
*Peters, L. E. 4 b Englewood, N. J.*  
*Peterson, W. sp t*  
     1230 Amsterdam ave.
- Pettigrew, F. S. 2 s 519 W. 123  
 Pettit, R. W. 3 m  
 Pettus, W. B. 4 c  
     Box 52,  
     Edgewater, N. J.
- Peyser, E. R. 2 t 64 W. 91*  
 Phelps, G. M. 2 m 318 W. 57  
 Phillips, C. 2 m 6 W. 117  
 Phillips, J. F. 3 l 415 W. 118  
 Phillips, W. 1 m 117 W. 63  
*Philp, M. I. ph 35 W. 93*  
 Pickard, G. H. 4 s 364 W. 118  
 Pickering, J. C. 4 s 51 W. 130  
 Pickhardt, E. W. S. ph 145 E. 62  
 Pidgeon, E. R. 2 m 506 W. 57  
 Pierce, H. W. 2 l 416 W. 118  
 Pierce, W. L. S. 3 s 85 and Bway.  
 Pierrepont, R. S. 3 c  
     116 and Riverside dr.

Pierrepont, S. L. 1 c  
216 Columbia Heights, Bklyn.  
Pignol, A. M. G. 4 t  
321 Flatbush ave., Bklyn.  
Pigott, R. J. S. 2 s 212 W. 102  
Pilcher, J. T. 4 m 318 W. 57  
Pillow, J. H. 3 m 340 W. 57  
Pinckney, T., Jr. 2 c  
116 and Riverside dr.  
Pincomb, H. M. 4 t 528 W. 123  
Pincus, E. 2 l 1941 Seventh ave.  
Pincus, W. 4 m  
364 Livingstone, Bklyn.  
Pinks, J. L. 1 l 257 W. 114  
Pinski, D. ph 51 E. 90  
Pitner, P. J. 3 s 415 W. 118  
Pitou, E., Jr. 4 c 301 W. 84  
Pitske, E. D. 2 l 365 W. 119  
Pitt, G. 3 c New Rochelle, N. Y.  
Plate, H. H. 2 b 416 W. 118  
Pocock, C. 2 s 526 W. 123  
Podalsky, D. L. 1 l 272 Madison  
Points, J. S. 1 b 40 Vroom,  
Jersey City, N. J.  
Polishook, S. N. 2 s 25 E. 3  
Pollak, L. L. 3 s 60 W. 119  
Pollak, W. H. 2 c 219 W. 138  
Pomerene, J. pl 415 W. 118  
Pool, E. M. ph  
829 West End ave.  
Poots, A. 3 t 524 W. 123  
Popcke, A. G. 2 s 951 Morris ave.  
Pope, D. I. 1 l 507 W. 112  
Popper, E. 2 s 260 W. 93  
Popper, H. 4 b 260 W. 93  
Porter, E. E. 1 c 50 W. 33  
Porter, J. C. 3 s 366 Madison,  
Bklyn.  
Porter, J. Y., Jr. 2 m 235 W. 102  
Porter, M. L. pl 12 Winsor pl.,  
Glen Ridge, N. J.  
Porter, W. R. 2 c 50 W. 33  
Post, C. M. 2 b Woodside, N. Y.  
Post, E. S. 2 b Woodside, N. Y.  
Post, H. B. 2 c 140 W. 77  
Poston, E. I. 2 m 40 W. 61  
Powell, F. J. 3 s 331 E. 17  
Powell, W. R. sp s 368 W. 118  
Powers, J. B. 1 m  
Powers, M. T. 3 m 465 W. 57  
Pozdena, O. R. 3 m 360 E. 72  
Prall, J. G. 1 s 606 W. 113  
Prather, J. K. gr s 430 W. 118  
Pratt, C. H. 2 m 95 High,  
Passaic, N. J.  
Pratt, J. S. 1 b 82 Maple ave.,  
New Rochelle, N. Y.  
Preble, G. R. 4 t 322 W. 52

Prensky, J. M. 2 l  
80 Graham ave., Bklyn.  
Prentice, I. W. sp t 550 W. 148  
Prentis, E. A., Jr. 2 s 408 W. 23  
Prentiss, R. N. 3 m 117 W. 64  
Prescott, C. I. 3 m 348 W. 58  
Price, C. R. 1 c 520 W. 123  
Price, M. gr s 64 W. 104  
Price, N. M. 1 b 19 E. 48  
Priest, L. T. 4 t 55 Pineapple,  
Bklyn.  
Prince, S. E. 3 t 528 W. 123  
Pritchard, W. H. 2 l 604 W. 114  
Proctor, D. M. 2 l 519 W. 123  
Proctor, R. H. 3 t 557 W. 124  
Protheroe, R. 2 s 154 Grace  
Church st., Port Chester, N. Y.  
Pumyea, P. C. 3 m 129 W. 61  
Purdon, F. H. 3 b 606 W. 114  
Purdue, O. C. 2 b 15 So. Arling-  
ton ave., E. Orange, N. J.  
Purdy, A. L. 1 s 415 W. 117  
Putnam, J. L. sp s 134 W. 128  
Putnam, W. 2 s 63 W. 95  
Pyle, W. R. p Bedford pk., N. Y.  
Quackenbos, G. P. ph 331 W. 28  
Quezada, C. T. 1 s 1 Bway.  
Quinn, C. M. 3 m 160 E. 47  
Quinn, J. A. p 7 Albany,  
New Brunswick, N. J.  
Raabe, A. 2 m 747 Courtland ave.  
Radgik, B. 3 m  
32 Atlantic ave., Bklyn.  
Radin, P. pl 844 Teasdale pl.  
Rae, A. M. 2 b  
1230 Amsterdam ave.  
Ragsdale, W. W. 1 l 310 W. 115  
Ralph, V. 2 b 2881 Bway.  
Ramsdell, E. G. 3 c 76 Convent  
ave.  
Ramsey, H. M. ph 175 Ninth ave.  
Randolph, F. C. F. 1 c 252 W. 85  
Randolph, H. S. F. 3 s  
1730 Bway.  
Raphael, A. M. 1 c 1038 Fifth ave.  
Rapp, K. L. 1 b 25 W. 84  
Rawls, P. S. 1 m 510 W. 124  
Ray, E. T. 2 m 555 W. 182  
Ray, T. H. 3 l 555 W. 182  
Raynolds, P. S. 3 t  
1230 Amsterdam ave.  
Read, J. P. 2 s Newark, N. J.  
Reaney, E. J. 2 b 216 W. 94  
Reaney, G. H. 1 c 216 W. 94  
Reardon, B. E. 3 l 343 Riverdale  
ave., Yonkers, N. Y.

- Reardon, M. C. R.* 1 b Rye, N. Y.  
*Rearick, A. C.* 3 l 227 W. 122  
*Reed, A. L.* ph 152 W. 95  
*Reed, J. H.* pl 402 W. 124  
*Reeder, I. M.* 2 b  
     Hastings-on-Hudson, N. Y.  
*Reeder, R. A.* 3 b  
     Hastings-on-Hudson, N. Y.  
*Regan, M. J.* sp m 216 W. 42  
*Reges, C. H.* 1 c 298 Grand ave.,  
     Astoria, L. I.  
*Reid, E. J.* 3 s 1200 Franklin ave.  
*Reiley, A. C.* 3 b  
     North Tarrytown, N. Y.  
*Reiley, K. C.* ph North Tarry-  
     town, N. Y.  
*Reilly, K. A.* 2 t 55 W. 47  
*Reiilinger, B. H.* 3 b 66 W. 68  
*Rejall, A. E.* 2 c  
     54 Tompkins pl., Bklyn.  
*Remy, A.* ph 203 W. 131  
*Renner, F. A.* 1 s 1509 Bryant  
*Rennert, R. J.* p 98 E. 114  
*Reppenhagen, L.* 3 t  
     1230 Amsterdam ave.  
*Reuben, M.* 2 m 24 W. 112  
*Reynolds, F. A.* ph 5 W. 125  
*Reynolds, H. S.* 2 l 26 W. 36  
*Reynolds, J. J.* gr t 843 E. 158  
*Rhame, J. F.* 2 s Wantagh, N. Y.  
*Rheinstein, A. M.* 3 b 329 W. 71  
*Riblet, M. V.* ph 343 E. 68  
*Riblet, R. F.* 2 c 343 E. 68  
*Rice, F. W.* 2 m 113 W. 49  
*Rice, J. B.* 1 b  
     1230 Amsterdam ave.  
*Rich, C. W.* 2 c 222 W. 139  
*Rich, E. G.* 3 c 222 W. 139  
*Rich, M. E.* 4 t  
     320 St. Nicholas ave.  
*Rich, M. E. W.* 1 b Mt. Vernon,  
     N. Y.  
*Rich, S. R.* ph 695 Madison ave.  
*Richards, F. S.* 2 t  
     1230 Amsterdam ave.  
*Richter, R. M.* 2 c 674 E. 143  
*Richter, S. L.* 1 c 68 E. 79  
*Richter, T. B.* 1 l 68 E. 79  
*Ricketts, H. E.* 3 m 328 W. 56  
*Ridder, J. E.* 2 s 447 E. 84  
*Riddle, G. W.* sp s 627 W. 115  
*Rider, W. H., Jr.* ph 700 Park ave.  
*Riedel, C. O.* 4 s 605 Seventh,  
     Bklyn.  
*Riggs, F. B.* sp s 15 W. 39  
*Riggs, L., Jr.* 1 l 46 E. 29  
*Ring, A. E.* 3 s  
     159 and Sheridan ave.  
*Ringer, P. H.* 4 m  
     312 Manhattan ave.  
*Rionda, E.* 1 t 464 W. 145  
*Rionda, L. J.* 4 s 464 W. 145  
*Ripley, A. Van D.* sp b 11 W. 56  
*Ritter, J.* pl 133 W. 116  
*Rix, M. L.* 4 b 430 W. 118  
*Roach, L. J.* 3 l 416 W. 118  
*Robert, C. S.* 1 s  
     1161 Amsterdam ave.  
*Roberts, H. E.* 4 t  
     Mt. Vernon, N. Y.  
*Roberts, J. T., Jr.* 1 s  
     517 Manhattan ave.  
*Roberts, R. J.* 1 l  
*Robinson, A. R.* 4 t  
     1230 Amsterdam ave.  
*Robinson, B.* 1 s  
     University Heights  
*Robinson, C. B.* p  
     E. 192, near Marion ave.  
*Robinson, J. L.* 4 c 519 W. 123  
*Robinson, J. P.* 3 c 178 Main,  
     Orange, N. J.  
*Robinson, P. O.* pl  
     High School of Commerce  
*Robinson, R. C.* 4 m 339 W. 55  
*Robinson, T. G.* 3 c 209 W. 118  
*Robinson, W. J.* p  
     N. Y. Botanical Garden, N. Y.  
*Rochester, A.* sp b  
     Englewood, N. J.  
*Rochester, T. W.* 2 s  
     845 Lexington ave.  
*Roden, B. F., Jr.* 2 s 418 W. 118  
*Rodgers, J. H.* sp s 521 W. 123  
*Rodman, B. B.* 3 c 846 Boule-  
     vard, Astoria, N. Y.  
*Rodman, H.* ph 846 Boulevard,  
     Astoria, N. Y.  
*Roe, F. W.* ph 501 W. 120  
*Roe, H. E.* 4 t 81 E. 116  
*Rogers, A.* 4 s 214 W. 128  
*Rogers, A. D.* 3 t  
     929 Amsterdam ave.  
*Rogers, R. B.* 3 s 250 W. 94  
*Rogers, S. E.* 2 l 162 E. 78  
*Rogers, S. L.* 3 t Laonia, N. J.  
*Rohlf, O. D.* 3 s 415 W. 117  
*Rohr, M. D.* 2 b 15 and Ave. B,  
     Westchester, N. Y.  
*Rolle, S.* 3 s 145 W. 111  
*Rollinson, E. H.* 3 t 356 W. 22  
*Romano, S. C.* 3 m  
     2081 Second ave.  
*Rood, W. H.* 3 l 53 W. 126  
*Roop, M. J.* gr t  
     Ridgefield, N. J.

Rose, C. R. 3 l 417 W. 117  
 Rose, J. T. 4 m 220 W. 69  
 Rosemon, E. M. 1 b 1230 Amsterdam ave.  
 Rosenberg, A. 3 m 617 Sixth  
 Rosenblum, A. 1 s 238 Clinton  
 Rosenheck, C. 3 m 840 E. 137  
 Rosenson, H. J. 3 c 63 Morton, Bklyn.  
 Rosenstein, H. 3 m 206 E. 3  
 Rosenthal, J. 2 m 501 W. 140  
 Ross, C. A. 2 m 350 W. 55  
 Ross, E. K. 4 m 45 Charlton  
 Ross, W. H. 4 m 219 Penn, Bklyn.  
 Rossano, A. T. 2 m 451 E. 114  
 Rossbach, I. 1 b 1 W. 86  
 Rossberg, F. H. sp s 18 Morningside ave.  
 Rossberg, W. N. 4 s 18 Morningside ave.  
 Roth, L. E. 2 t 701 St. Nicholas ave.  
 Rothschild, C. G. 3 s 4 E. 67  
 Rothschild, W. L. 3 c 1111 Madison ave.  
 Rowe, H. M. 2 l 541 W. 124  
 Royall, E. D. 4 m  
 Royce, S. G. ph 203 W. 113  
 Rubedge, H. S. 3 s 202 W. 122  
 Rubin, I. 3 m 133 Bleeker  
 Rucker, A. J. 3 l 419 W. 117  
 Ruef, J. W. 3 l 320 W. 115  
 Rufo-Terry, R. J. 4 s 247 W. 107  
 Ruhe, A. 2 s 216 W. 102  
 Ruhl, H. L. 1 m 842 E. 164  
 Rupp, F. L. 2 s 359 W. 34  
 Rushmore, E. H. 1 m 119 W. 63  
 Rusk, E. 1 b 636 Columbus ave.  
 Russak, L. B. 2 t 88 Edgecombe ave.  
 Russell, B. p 439 W. 57  
 Russell, E. L. 3 t 1230 Amsterdam ave.  
 Russell, I. K. 2 b 119 Pacific, Bklyn.  
 Russell, L. K. gr t 430 W. 118  
 Ryan, R. 3 m 318 W. 57  
 Ryan, S. E. 3 m 129 W. 61  
 Ryder, G. L. sp s 10 Pleasant ave. Ossining, N. Y.  
 Ryshpan, B. sp b 262 E. Bway.  
 Ryttenberg, C. A. 2 m 332 W. 56  
 Sage, W. M. 2 s 981 Madison ave.  
 Salinger, H. J. sp s 8 E. 86  
 Salley, E. M. 2 l 201 Eighth, Jersey City, N. J.  
 Sammis, J. F. 2 m 363 W. 56  
 Sample, S. J. 3 l 316 W. 115

Sanborn, O. C. 2 l 408 Manhattan ave.  
 Sandercock, B. L. 4 t 14 W. 96  
 Sanders, G. 3 m 482 Central pk., W.  
 Sanger, C. F. 4 s 126 W. 111  
 Sapir, E. 3 c 104 E. 88  
 Saqui, E. 2 s 2026 Seventh ave.  
 Sartori, A. J. 4 m 28 Roosevelt  
 Saunders, T. L. 4 m 414 W. 118  
 Sauri, R. E. sp s 365 Manhattan ave.  
 Sawyer, J. M. sp s 501 W. 120  
 Sawyer, R. 4 t 33 Morningside ave.  
 Sax, B. D. ph 1991 Lexington ave.  
 Saxton, L. M. pl 251 W. 112  
 Sayeki, H. pl 560 Fifth ave.  
 Sayre, M. F. 1 s 514 W. 124  
 Schachtel, E. 1 b 143 W. 16  
 Schaefer, E. P. 3 m 444 S. Seventh, Newark, N. J.  
 Schaefer, L. sp s 27 and Bway., Paterson N. J.  
 Schapiro, J. 3 m 130 Rivington  
 Scharff, V. E. ph 12 Schermerhorn, Bklyn.  
 Sharps, C. E. T. 4 c 57 W. 75  
 Schauffler, C. E. 4 t 23 Woodland ave., New Rochelle, N. Y.  
 Schaus, C. J. 4 s 430 W. 118  
 Schayer, M. 3 m 52 E. 120  
 Schenck, G. H. 4 m 143 W. 63  
 Schermerhorn, J. E. 1 c 25 E. 79  
 Schey, J. S. 2 l 430 W. 118  
 Schiffman, S. 2 c 90 Sheriff  
 Schiller, A. N. 1 m 151 Park Row  
 Schlachter, C. E. 3 c 503 Manhattan ave.  
 Schlageter, F. 2 b 43 Ellison, Paterson, N. J.  
 Schlivek, K. 4 m 316 E. 79  
 Schlosberg, S. ph 313 E. 74  
 Schmidt, C. H. 2 b 31 N. Bleeker, Mt. Vernon, N. Y.  
 Schminke, E. A. 1 s 129 W. 96  
 Schmitt, F. W. 3 s 526 W. 123  
 Schneider, C. A. 4 s 430 W. 118  
 Schneider, J. 1 c 504 Main, Orange, N. J.  
 Schnirel, H. F. 3 c 520 W. 123  
 Schodts, L. M. ph 133 E. 73  
 Schoenborn, W. R. 3 s 329 Main, Hackensack, N. J.  
 Schoonmaker, R. B. 1 s 415 W. 117  
 Schramm, E. B. 1 b 510 W. 124  
 Schreiber, C. T. 4 s 515 Van Buren, Bklyn.



- Schreiber, H. W., Jr. 2 s  
324 W. 115
- Schroeder, R. 1 l 1045 Bloom-  
field, Hoboken, N. J.
- Schück, P. J. 4 m 2 Newark,  
Hoboken, N. J.
- Schuetz, F. F. p 505 W. 124
- Schuldenfrei, L. 2 l 73 W. 115
- Schulman, M. 3 m 58 W. 115
- Schulman, R. 2 m 237 Rutledge,  
Bklyn.
- Schultz, N. 3 b 127 W. 85
- Schultz, R. S., Jr. 2 s 413 W. 117
- Schumer, H. 2 m 21 E. 99
- Schur, C. 3 m 600 Park ave.
- Schuster, E. 2 l 68 W. 116
- Schuyler, R. L. pl 1025 Park ave.
- Schwab, F. C. 2 l 35 W. 128
- Schwab, R. 2 l Glen Cove, L. I.
- Schwabacher, F. 4 s 505 W. 124
- Schwaneftugel, C. A. 1 s  
898 Steinway ave., L. I.
- Schwartz, D. B. 3 m  
92 S. Oxford, Bklyn.
- Schwartz, L. H. 1 m 122 E. 98
- Schwartz, M. E. 3 m 47 Pike
- Schwartz, P. 2 m 310 Second
- Schwarz, R. J. 2 l 67 W. 115
- Schwarz, S. A. 3 s 330 E. 58
- Schwarz, W. M. 1 c 312 W. 99
- Schwarzkopf, W. 2 s 107 E. 123
- Schwarzman, I. 2 l 336 E. 30
- Schwed, H. 3 c 519 W. 123
- Schwegler, F. H. 1 l 155 W. 88
- Schwegler, G. 2 s  
22 Mt. Morris pk., W.
- Schwerin, N. P. 4 t 100 W. 80
- Scott, A. C. 3 s  
Westchester, N. Y.
- Scott, B. T. 3 b 414 W. 118
- Scott, C. A. p 507 W. 112
- Scott, E. 2 c 41 Elmhurst ave.,  
Elmhurst, L. I.
- Scott, F. 3 s 1272 Amsterdam ave.
- Scott, G. G. p 529 W. 123
- Scott, I. 3 b 1230 Amsterdam ave.
- Scruton, W. A. 2 m 46 Market
- Seaman, F. C. 3 l  
135 St. James pl., Bklyn.
- Sears, H. C. 2 m 318 W. 57
- Sears, W. H. 4 s 604 W. 115
- Seaton, G. M. 3 t 846 Boulevard,  
Astoria, N. Y.
- Sedgwick, A. E. 2 s  
1294 Columbus ave.
- Sedgwick, R., Jr. 1 l 129 E. 36
- See, E. T. 2 s  
481 Manhattan ave.
- Seelig, A. E. 1 s  
608 Lexington ave.
- Seeligman, I. S. 2 b 231 W. 129
- Seggel, O. F. 4 c 285 Central ave.,  
Jersey City, N. J.
- Seifert, H. F. 2 s 255 Hancock  
ave., Jersey City, N. J.
- Seil, H. A. 2 s 35 W. 119
- Selig, S. sp c 145 E. 15
- Seligsberg, W. N. 3 l  
1034 Park ave.
- Sellers, G. M. 4 s
- Selvage, C. E. 2 m 546 Clinton  
ave., Newark, N. J.
- Selvage, I. L. 4 c 546 Clinton  
ave., Newark, N. J.
- Seme, P. I. 2 c 19 W. 135
- Semper, L. B. ph 825 Marcy ave.,  
Bklyn.
- Sender, C. S. 1 l 73 E. 92
- Seringhaus, F. W., Jr. 4 s  
954 Eighth ave.
- Serota, H. M. 3 m  
1683 Washington ave.
- Severson, I. W. 2 m 328 W. 56
- Seymour, A. D., Jr. 2 s  
280 McDonough, Bklyn.
- Seymour, A. T. p 80 Day,  
Orange, N. J.
- Seymour, H. F. sp s  
411 Manhattan ave.
- Seymour, J. 4 b 256 Penn., Bklyn.
- Seymour, J. C., Jr. 4 c 622 W. 147
- Sgier, M. J. sp m 1036 Myrtle  
ave., Bklyn.
- Shaine, M. S. 2 m 8 E. 131
- Shainwald, M. S. pl  
667 Madison ave.
- Shank, E. W. 1 m 330 W. 55
- Shapiro, A. I. 3 m 4 Elm,  
Yonkers, N. Y.
- Shapiro, M. 1 s 36 Monroe
- Shapiro, R. 1 c 334 W. 124
- Sharpless, E. R. gr t  
321 St. Nicholas ave.
- Shaw, F. M. sp t  
1230 Amsterdam ave.
- Shaw, I. D. gr t 528 W. 123
- Shea, L. D. V. 3 s 244 E. 117
- Shea, W. A. 2 m 408 W. 58
- Shearman, W. H. 1 s  
771 Madison ave.
- Sheehan, J. M. ph 209 Carroll,  
Bklyn.
- Sheib, L. W. (Mrs.) 3 t  
1230 Amsterdam ave.
- Shelley, S. E. 4 b  
1230 Amsterdam ave.

Shenstone, N. S. 3 m 138 W. 64  
*Shepperson, M. sp t*  
 1230 Amsterdam ave.  
 Sheridan, J. W. ph 529 W. 145  
 Sherman, A. L. 4 m 338 W. 56  
 Sherman, F. D. ph 541 W. 124  
 Sherman, L. F. ph  
 Peekskill, N. Y.  
 Sherrick, M. W. 4 t  
 1230 Amsterdam ave.  
 Sherron, G. A. 3 s 417 W. 114  
 Sherwood, W. D. 2 m 2973 Decatur  
 ave., Bedford pk., N. Y.  
 Shields, H. 3 s 420 W. 118  
 Shilling, J. H. ph Hilton, N. J.  
 Shinn, N. I. 1 b  
 Pelham Manor, N. Y.  
 Shipp, E. M. 2 s 416 W. 118  
 Shoenfeld, J. B. pl 14 E. 76  
 Shoninger, H. 1 b 27 W. 89  
 Short, H. B., Jr. 1 l  
 463 Manhattan ave.  
 Shostac, F. 1 t 132 E. 96  
 Shriver, W. P. pl 166 W. 105  
 Shuart, H. A. 2 l Ramsey, N. J.  
 Shugerman, H. P. 2 m  
 465 W. 57  
*Shwab, F. sp b*  
 410 W. 118  
 Sichel, W. 2 c 122 W. 121  
 Sigerson, E. B. 1 s 94 E. 114  
 Sigmund, B. J. 2 s 168 Second  
 Silberstein, N. 2 c 107 E. 109  
*Silliman, F. E. 2 t* 2002 Fifth ave.  
 Silliman, J. C. 4 m  
 Silverman, H. L. 2 s 541 W. 124  
 Silverman, S. T. 2 m 289 E. 3  
 Simmons, M. P. 1 t 46 Park ave.,  
 Yonkers, N. Y.  
 Simon, H. sp s 415 W. 118  
*Simon, J. 1 b* 12 W. 131  
 Simons, A. G. 3 s 128 St. Paul's  
 ave., Tompkinsville, N. Y.  
*Simons, L. W. 4 t*  
 Port Chester, N. Y.  
 Simons, M. L. 2 b 231 William,  
 Port Chester, N. Y.  
 Simpson, K. M. 2 s 419 W. 118  
*Simpson, M. A. 3 t*  
 533 Manhattan ave.  
 Simpson, W. J. 1 s  
 1231 Madison ave.  
 Sincerbeaux, F. H. 2 l 25 E. 76  
 Sinclair, H. M. pl 524 W. 123  
 Sinclair, J. E. 2 s 62 Taylor,  
 Newark, N. J.  
*Sinclair, J. S. sp b*  
 564 Hancock, Bklyn.  
 Sindeband, L. M. 1 s 211 E. 3

Singer D. A. 2 m 166 E. 108  
 Singer, J. I. 1 m 252 Broome  
 Sirovich, W. I. 2 m 368 E. 4  
 Sittenfield, M. M. 2 l  
 374 Manhattan ave.  
 Skinner, N. T. 3 t 524 W. 123  
 Slack, J. D. 4 m 145 W. 63  
 Slator, H. 2 b  
 131 Jewett ave., S. I.  
 Slaughter, W. H. 1 m  
 52 Johnson, Bklyn.  
 Sloan, S. G. 3 t  
 1230 Amsterdam ave.  
 Sloane, C. O'C. 2 c 55 Montrose  
 ave., So. Orange, N. J.  
 Sloane, M. W. sp b 247 Broad,  
 Newark, N. J.  
 Slocum, A. L. 2 m 209 E. 53  
 Slosson, S. 3 c  
 116 and Riverside dr.  
 Smalley, H. L. 1 s 521 W. 123  
 Smetanka, J. pl 41 E. 69  
 Smillie, S. 4 s 156 E. 36  
 Smith, A. ph 12 E. 118  
 Smith, A. G. ph 95 Grand, Bklyn.  
 Smith, A. H. ph 510 W. 143  
 Smith, A. Van W. 3 b 183 W. 135  
 Smith, A. W. pl 600 W. 125  
 Smith, C. A. 1 l 257 W. 114  
 Smith, C. E. 1 b Woodside, N. Y.  
 Smith, E. C. 3 l  
 517 Manhattan ave.  
 Smith, E. C. 3 t 430 W. 118  
 Smith, E. J. 4 m 318 W. 57  
 Smith, E. L. 4 t 417 W. 118  
 Smith, E. N. sp b 101 E. 69  
 Smith, G. M. 3 m 253 W. 75  
 Smith, H. A. 3 l 22 W. 51  
 Smith, H. L. ph Madison, N. J.  
 Smith, H. R. 1 s 341 E. 19,  
 Bklyn.  
 Smith, H. W. pl 41 E. 69  
 Smith, H. W. 2 l 417 W. 114  
 Smith, J. B., Jr. 3 l  
 299 Alexander ave.  
 Smith, J. H. 3 l 152 King,  
 Port Chester, N. Y.  
 Smith, J. J. 3 m 325 W. 58  
 Smith, L. B. 3 c 97 South,  
 Mt. Vernon, N. Y.  
 Smith, L. M. 3 t 366 W. 116  
 Smith, M. 3 b 535 W. 159  
 Smith, M. E. 3 m 317 W. 56  
 Smith, P. pl 419 W. 118  
 Smith, R. S. 3 l 419 W. 117  
 Smith, S. B. 3 m 413 W. 117  
 Smith, S. L. 2 m 30 W. 44  
 Smith, W. M. 2 m 143 W. 61

- Smith, W. S. 3 *m* 314 W. 55  
 Smith, W. T. 3 *s* 449 W. 123  
 Smolen, A. L. 2 *m* 831 E. 146  
 Smyth, S., Jr. *p* 405 E. 61  
 Snedeker, C. F. 3 *s*  
     Haverstraw, N. Y.  
 Snider, G. E. *pl* 130 W. 109  
 Snow, W. *ph* 23 W. 9  
 Snyder, A. 3 *b*  
     1230 Amsterdam ave.  
 Snyder, T. E. 1 *c* 301 W. 114  
 Sobel, S. P. 2 *m* 229 E. 126  
 Soden, G. A. 3 *m*  
     441 Summer ave., Newark, N. J.  
 Solley, F. D. 3 *m*  
     1332 Lexington ave.  
 Solomon, C. L. 3 *b* 519 W. 123  
 Solomon, H. *sp b* 1 W. 92  
 Solomon, M. 1 *c* 637 Fifth  
 Solomon, W. L. 2 *c* 522 W. 150  
 Solotaroff, D. H. 1 *l* 41 W. 117  
 Solow, A. S. 4 *s*  
     1110 Jackson ave.  
 Solow, D. E. 2 *s*  
     1110 Jackson ave.  
 Somborn, E. 2 *b* 125 E. 69  
 Somerville, C. M. 1 *t*  
     65 Morningside ave.  
 Soper, A. E. 2 *m* 159 W. 64  
 Sowles, E. B. 3 *t*  
     1230 Amsterdam ave.  
 Sparkman, L. H. 3 *b* 448 Ellison,  
     Paterson, N. J.  
 Speck, F. G. 4 *c*  
     Hackensack, N. J.  
 Spelman, H. T. 1 *m*  
     196 Eighth ave., Bklyn.  
 Spence, K. M. 2 *c* 320 W. 75  
 Spencer, C. B. 1 *c*  
     1124 Tinton ave.  
 Spencer, J. B. 1 *s* 77 Worth  
 Spencer, J. W. 1 *l*  
 Spencer, L. 1 *c* 411 W. 117  
 Spengeman, P. C. *sp m* 340 E. 84  
 Spicer, C. C. 3 *l* 354 W. 120  
 Spickers, W., Jr. 2 *m* 2 W. 83  
 Spiegelberg, S. L. 2 *m*  
     Hotel Majestic  
 Spingarn, S. 2 *c* 118 E. 58  
 Spitz, E. F. 1 *c*  
     265 Kosciusko, Bklyn.  
 Sprague, C. H. 4 *m* 437 W. 59  
 Sprague, F. K. 3 *c*  
     Hotel San Remo  
 Sprigg, C. 3 *l* 604 W. 114  
 Springer, A. 2 *t*  
     1230 Amsterdam ave.  
 Springs, A. A., Jr. 1 *l* 420 W. 118  
 Squires, L. 3 *l* 415 W. 117  
 Staber, H. L. 3 *b*  
     360 Clinton, Bklyn.  
 Stackpole, E. B. *pl* 43 Maple,  
     Bloomfield, N. J.  
 Stafford, C. B. 3 *t*  
     1230 Amsterdam ave.  
 Stainton, G. F. 2 *l* 125 E. 111  
 Stangeland, C. E. *pl* 416 W. 118  
 Stangland, R. S. 4 *s* 157 W. 123  
 Stapf, F. M. 1 *b*  
     1230 Amsterdam ave.  
 Stapler, M. G. 3 *b* 301 W. 77  
 Staral, F. J. 4 *s* 519 W. 123  
 Starbuck, W. S. *sp s* 417 W. 141  
 Stark, S. 1 *l* 244 Bowery  
 Starr, A. E. *sp b*  
     1230 Amsterdam ave.  
 Starr, F. *ph* 17 Lexington ave.  
 Starr, I. P. 3 *m* 17 Essex  
 Start, M. H. 3 *t* 679 E. 143  
 Stauffen, E., Jr. 4 *c* 328 W. 83  
 Staunton, H. C. *ph*  
 Stearn, M. F. 1 *b* 410 W. 115  
 Stebbins, C. M. *ph* 951 St.  
     Mark's ave., Bklyn.  
 Steegmuller, C. A. A. 3 *s*  
     354 W. 120  
 Steele, E. 3 *t*  
     1230 Amsterdam ave.  
 Steele, M. L. 4 *t* 251 W. 97  
 Steele, P. 2 *l*  
     242 Carroll, Bklyn.  
 Steere, A. 2 *m* 159 W. 64  
 Steeves, H. R. *ph* 62 W. 130  
 Steffens, J. F. *sp s* 253 Ogden  
     ave., Jersey City, N. J.  
 Steiger, K. F. 4 *t*  
     1230 Amsterdam ave.  
 Stein, C. R. 4 *s* 343 E. 47  
 Stein, H. L. 4 *c*  
     292 Manhattan ave.  
 Steindler, H. 4 *s* 308 W. 121  
 Steiner, M. 2 *l* 327 E. 42  
 Steiner, S. H. 2 *c* 235 W. 133  
 Steinert, J. B. 4 *t* 435 W. 123  
 Steinfeld, A. 1 *c* 22 E. 93  
 Steinhardt, I. D. 2 *m* 168 W. 96  
 Stepanek, B. *ph* 138 W. 4  
 Stephens, J. W. *ph* 80 W. 105  
 Stephens, R. 1 *s* 146 and  
     Gerard ave.  
 Stephenson, A. G. 1 *c*  
 Stern, H. R. 1 *l* 986 Fifth ave.  
 Stern, M. F. 1 *c* 430 W. 118  
 Stern, R. M. 4 *b* 29 W. 87  
 Stetson, A. D. 3 *t*  
     166 Wilson, Bklyn

Stevens, C. T. 4 m  
New Rochelle, N. Y.  
Stevens, E. C. 3 s 500 W. 123  
Stevens, H. H. 3 m 188 Buena  
Vista ave., Yonkers, N. Y.  
Stevens, H. L. 4 t 315 W. 95  
Stewart, C. A. 2 c 259 W. 11  
Stewart, E. E. 2 m 123 W. 11  
Stewart, M. G. p  
533 Manhattan ave.  
Stewart, S. 2 m 59 W. 62  
Stewart, V. C. 4 m 309 W. 78  
Steyne, L. A. 2 l 260 W. 130  
Stiebritz, E. 2 b 604 Bway.,  
Long Island City, N. Y.  
Stillman, A., II. 1 m 339 W. 55  
Stillman, C. K. 4 m 339 W. 55  
Stillman, R. G. 1 m 422 W. 57  
Stillwell, H. A. sp s 187 Marl-  
boro' rd., Bklyn.  
Stiner, P. A. 3 c 149 W. 120  
Stinson, J. W. 2 s 301 W. 91  
Stitt, E. W. 2 b 156 W. 93  
St. George, A. H. 3 c  
35 Lorillard pl.  
St. John, T. R. 2 l 143 W. 61  
St. John, W. W. 3 m 143 W. 61  
Stobo, J. R. sp b Hotel St. Andrew  
Stockard, C. R. p 519 W. 123  
Stockbridge, A. M. 3 t  
2111 Madison ave.  
Stocker, M. A. 4 t  
1230 Amsterdam ave.  
Stone, C. W. 3 t 541 W. 124  
Stone, I. p Vassar College,  
Poughkeepsie, N. Y.  
Stone, M. H. 4 b 254 W. 93  
Stork, E. J. 1 s 212 Hancock  
ave., Jersey City, N. J.  
Stots, M. M. sp t  
1230 Amsterdam ave.  
Stoutenburgh, C. H. 3 s 110 W. 77  
Stow, S. H. 4 s 614 W. 113  
Stowell, E. E. 3 l 415 W. 118  
Strain, W. P. 2 m 28 Guion,  
New Rochelle, N. Y.  
Strange, M. sp t  
1230 Amsterdam ave.  
Strasser, A. L. 2 l 12 W. 85  
Stratmann, C. F. 2 m 453 E. 25,  
Bklyn.  
Straus, E. 3 l 14 Morningside ave.  
Straus, P. R. 1 s 250 W. 82  
Strauss, C. R. 1 b 20 E. 74  
Strauss, F. M. gr t 343 W. 56  
Stray, A. T. 4 c 410 W. 115  
Strayer, C. B. Mrs. sp t  
528 W. 123

Strayer, G. D. gr t 528 W. 123  
Strebeigh, R. L. 3 l 76 E. 55  
Streber, F. R. 1 s  
Streeter, P. C. 2 c 409 W. 117  
Strobridge, G. 2 s 317 E. 118  
Strong, C. F. 4 s 519 W. 123  
Strong, R. M. 3 s 521 W. 123  
Struss, W. E. 3 s  
729 St. Nicholas ave.  
Stuart, F. 3 t 430 W. 118  
Stubbs, H. M. sp t 478 W. 145  
Stuhrman, E. A. 1 s 536 E. 13  
Sturdevant, T. K. f a 435 W. 117  
Sturges, H. P. 2 c 56 E. 34  
Sullivan, F. J. 2 l 416 W. 118  
Sullivan, J. C. 3 l 413 W. 117  
Sullivan, M. A. 2 l 281 W. 119  
Sullivan, R. P. A. 1 m  
74 McDonough, Bklyn.  
Sumner, A. J. 2 m 130 Broome  
Sundheimer, A. I. 1 s 234 W. 137  
Sussman, M. H. 2 s 318 E. 121  
Sutro, H. A. 2 s 44 W. 76  
Sutter, M. V. sp c 63 Neptune  
ave., New Rochelle, N. Y.  
Sutton, G. A. K. 1 l 131 W. 118  
Suydam, A. G. 2 s  
Ridgefield, N. J.  
Suzuki, I. pl 117 W. 117  
Suzzallo, A. H. gr t 417 W. 118  
Swan, B. L. 4 b 26 Union ave.,  
Mt. Vernon, N. Y.  
Swan, E. pl 68 W. 96  
Swan, W. L., Jr. 1 s  
Oyster Bay, L. I.  
Swann, A. W. 1 m 22 Park ave.  
Swart, C. T. 4 s 226 S. Second  
ave., Mt. Vernon, N. Y.  
Swartz, L. E. 1 l 369 W. 117  
Swartz, C. C. 4 s 413 W. 117  
Swezy, L. V. V. 1 s  
61 Convent ave.  
Swift, M. B. 3 m 129 W. 61  
Swords, A. T. 1 c  
1727 Washington ave.  
Swortfiguer, H. B. 4 c  
261 Central pk., W.  
Taber, E. J. L. 3 l 500 W. 123  
Tachna, M. 1 c 37 E. Bway.  
Taft, T. K. 2 s 410 W. 115  
Takata, M. pl 2 W. 131  
Talbot, A. A. 3 b  
Boune pk.  
Flushing, N. Y.  
Talcott, M. G. 3 s 417 W. 114  
Tallmadge, C. P. 2 l 521 W. 123  
Talmage, J. B., Jr. 4 m  
294 Willis ave.



- Tamagno, G. M.* 3 t  
 713 St. Nicholas ave.  
*Tamaki, Y.* sp pl 203 Bway.  
*Tanaka, S.* pl 5 W. 125  
*Tanz, I.* p 55 Pitt  
*Taplin, E. G.* 3 t 519 W. 123  
*Tappen, W. J.* sp m 216 W. 42  
*Tasche, F.* 2 t 444 E. 120  
*Taschman, M.* 4 m 160 E. 109  
*Tassey, W. E.* 2 m 151 W. 61  
*Tattershall, A. S.* 3 b  
 1230 Amsterdam ave.  
*Tavener, E.* ph 56 W. 105  
*Taylor, B. R.* 3 t  
 1230 Amsterdam ave.  
*Taylor, C. D.* 2 m 320 W. 58  
*Taylor, C. G.* 1 m 417 W. 118  
*Taylor, H. B.* 2 s  
 902 West End ave.  
*Taylor, J. A.* 3 c 3285 Bway.  
*Taylor, J. B.* sp s 419 W. 117  
*Taylor, J. E.* 3 t 166 W. 83  
*Taylor, J. H.* 1 c 101 W. 106  
*Taylor, J. W.* ph 3285 Bway.  
*Taylor, R. M.* 1 s 122 W. 133  
*Taylor, V.* 2 b  
 1230 Amsterdam ave.  
*Telford, G. C.* 3 t 524 W. 123  
*Telsey, S. A.* 2 l 462 Stone ave.,  
 Bklyn.  
*Temple, H. K.* 2 s  
 517 Manhattan ave.  
*Tenney, J. B.* 2 s 530 W. 123  
*Te Poel, L. J.* 2 l 11 E. 106  
*Tepper, E.* 2 l 137 W. 116  
*Terriberry, W. K.* 1 m 422 W. 57  
*Terry, W. R.* 3 m 10 W. 56  
*Tetley, T. R., Jr.* 3 s 304 Bleecker  
*Thallon, I. C.* ph 210 W. 107  
*Thaxton, O. A.* gr t 520 W. 123  
*Thoman, W. F.* 2 s 312 W. 87  
*Thomas, C. S., Jr.* 2 s 419 W. 118  
*Thomas, H. A.* 2 c 115 and  
 Riverside dr.  
*Thomas, H. L. R.* 3 c 51 W. 106  
*Thomas, J. S.* 4 m 172 W. 81  
*Thomas, J. W.* ph 1050 Bergen,  
 Bklyn.  
*Thomas, M. D.* 4 m 366 W. 57  
*Thomas, M. E.* 4 b 157 Glenwood  
 ave., Yonkers, N. Y.  
*Thomas, M. M.* 4 t  
 1230 Amsterdam ave.  
*Thomas, W. E.* pl 271 W. 113  
*Thomas, W. M.* gr t 271 W. 113  
*Thompson, F. B.* sp l 126 W. 47  
*Thompson, H.* pl 519 W. 123  
*Thompson, J., Jr.* 3 c 430 W. 118  
*Thompson, M.* 3 b 166 W. 97  
*Thompson, R. W.* pl 438 W. 116  
*Thomson, C. K.* ph  
 175 Ninth ave.  
*Thorburn, S. G.* sp t 215 W. 51  
*Thorndike, E. L.* pl 557 W. 124  
*Thorp, A. F. M.* 3 b 414 W. 118  
*Thorp, J. S.* 1 s 171 E. 70  
*Thorp, T. J.* 2 s 171 E. 70  
*Thunig, L. A.* 2 m  
 799 DeKalb ave., Bklyn.  
*Thurber, A. E.* 4 c 310 W. 115  
*Thurlow, J. N.* 2 c 604 W. 115  
*Thurston, E. D., Jr.* 3 c 113 E. 29  
*Tibbitts, M. E.* 1 b 213 Temple,  
 Astoria, L. I.  
*Tice, W. A.* 4 c 2053 Seventh ave.  
*Tiffany, W. J.* 3 m 465 W. 57  
*Tillinghast, R. B.* 2 l 500 W. 121  
*Tilt, W. A.* 3 c 5 E. 67  
*Timmermeister, K.* 3 l 316 W. 115  
*Tindell, G. R.* 1 m  
*Tinges, K. W.* 3 t  
 1230 Amsterdam ave.  
*Tinker, E. L.* 2 l 48 E. 57  
*Tintner, B. A.* ph 531 W. 123  
*Titsworth, S. R.* 2 m 21 W. 65  
*Tolbert, W. V.* 2 l 420 W. 118  
*Tolchinsky, J. J.* 3 c 483 Sutter ave.  
*Toll, R. W.* 2 s 431 Riverside dr.  
*Tomkies, C. D.* ph 523 W. 124  
*Tomkins, G. B.* 3 c 104 Park ave.,  
 Paterson, N. J.  
*Tomlinson, J. C., Jr.* 3 l 45 W. 57  
*Toms, E. I.* 2 b Ave. C., Union-  
 port, N. Y.  
*Tonnélé, J. L., Jr.* 3 c 48 E. 68  
*Torre, P., Jr.* sp s 420 W. 118  
*Toussaint, C. A.* p 3688 Boule-  
 vard, Jersey City, N. J.  
*Townsend, K.* 1 b 354 W. 123  
*Townsend, M. G.* gr t 354 W. 123  
*Townsend, S. D.* 3 c  
 East Orange, N. J.  
*Townshend, R.* 3 m 230 W. 75  
*Toy, C. R.* 3 c 608 W. 113  
*Tracy, H. A.* 1 b  
 1230 Amsterdam ave.  
*Tracy, I. O.* sp m  
 L. I. State Hospital, Bklyn.  
*Tracy, W. E.* 4 s 416 W. 118  
*Travis, T.* pl 700 Park ave.  
*Treat, M.* 2 t 1230 Amsterdam ave.  
*Tredwell, E. A. S.* 1 b 258 W. 52  
*Trevor, J. B.* 2 l 21 E. 37  
*Trier, B.* 4 b 703 Madison, Bklyn.  
*Tripp, M. O.* p 251 W. 112  
*Tripp, P. B.* 1 c 249 W. 103

Trippe, W. H. 3 s 397 Central  
ave., E. Orange, N. J.  
Trompen, N. J. 1 s  
Ramsey, N. J.  
Trotter, J. P. 1 m 189 Warbur-  
ton ave., Yonkers, N. Y.  
Truax, H. 1 l 310 W. 119  
Trube, J. M. 4 t Hastings-on-  
Hudson, N. Y.  
Trubenbach, C. D. 3 s 324 W. 57  
True, D. 1 b 328 W. 83  
Truesdale, E. D. 2 m 310 W. 56  
Tucker, E. S. 3 t 400 W. 57  
Tucker, G. W., Jr. 3 c  
94 Lawrence  
Tucker, L. E. gr t 483 Putnam  
ave., Bklyn.  
Tulipan, L. 3 m 119 Attorney  
Tulloch, T. H. 1 s 42 W. 83  
Turnbull, B. 3 s 430 W. 118  
Turnbull, G. C. 1 b 27 Burnett,  
E. Orange, N. J.  
Turnbull, W. F. p 510 W. 124  
Turner, L. P. sp t 136 E. 18  
Tweddell, F. 1 m  
Great Neck, L. I.  
Tweedy, J. B. sp l  
Spuyten Duyvil, N. Y.  
Tyler, E. W. 2 l 381 Lewis ave.,  
Bklyn.  
Tyler, W. R. 4 s 36 W. 93  
Tyng, E. M. ph 368 W. 117  
Ulmann, A., Jr. 1 s  
1161 Amsterdam ave.  
Underhill, M. V. sp b 259 W. 84  
Unger, H. H. 2 m 66 Ave. C  
Unger, W. F. 1 l  
1337 Madison ave.  
Untermeyer, I. 2 s 675 Fifth ave.  
Updike, D. M. 3 s 156 W. 74  
Urban, L. R. ph Gen. Theol. Sem.  
Ureles, M. sp m 2101 Eighth ave.  
Utter, G. L. ph 1067 Prospect pl.,  
Bklyn.  
Vail, C. E. 2 m 343 W. 56  
Valentine, J. J. 3 m  
Valentine, M. 1 b 21 W. 121  
Vanamee, T. O. 4 m 340 W. 57  
Vance, R. A. pl 106 W. 64  
Vandenberg, J. 4 m 46 Ave. D  
Van der Burgh, L. H. 4 c  
902 West End ave.  
Vander Veer, A., Jr. 4 m  
317 W. 58  
Van Ingen, E. G. 4 b  
135 Henry, Bklyn.

Van Name, W. M. ph  
2 Monroe, Bklyn.  
Van Ness, S. W. 4 c 121 Mt.  
Pleasant ave., Newark, N. J.  
Van Nest, M. V. sp b  
Glen Ridge, N. J.  
Van Nostrand, N. W. 3 c  
206 Bway.  
van Siclen, M. 2 s 606 W. 113  
Van Slyke, A. M. 4 b  
1230 Amsterdam ave.  
Van Verbeck-Schott, G. J., Jr. 2 m  
125 Lexington ave., Passaic, N. J.  
Van Vliet, J. L. ph 536 W. 114  
Van Wagenen, E. 3 s 36 E. 53  
Van Wagenen, H. R. 2 s  
430 W. 118  
Vaughan, H. S. 4 m 317 W. 56  
Vedder, J. N. p  
411 Manhattan ave.  
Vehslage, H. E. 1 c 117 W. 43  
Veit, A. S. sp c 310 W. 73  
Verhoeff, M. pl 416 W. 118  
Vermilye, R. M. 2 m  
34 Gramercy pk.  
Verplanck, J. B. R. 4 c  
124 and Bway.  
Ver Planck, J. C. 4 t 509 W. 112  
Veve, J. 3 m 207 W. 118  
Veve, S. 2 s 209 W. 58  
Vidal, J. E. 1 m 68 Beach,  
Stapleton, S. I.  
Vigouroux, G. G. 3 s 50 W. 84  
Villoldo, P. 3 m 146 W. 65  
Vogel, E. 3 l 505 W. 124  
Vogel, E. C. 4 c 56 E. 80  
Volk, M. 3 m 37 Rutgers  
Vom Saal, F. M. 2 s  
2 Mt. Morris pk., W.  
von Bernuth, R. L. 1 l 130 W. 64  
von Pustau, C., Jr. 1 s  
284 Clinton ave., Bklyn.  
von Sholly, B. R. p 280 W. 115  
von Unwerth, F. ph 417 W. 118  
Voorhees, H. C. 2 m 117 W. 63  
Voorhees, I. W. 3 m 328 W. 56  
Voxman, W. 2 t 125 Forsyth  
Vreeland, L. B. 3 c 231 W. 135  
Vreeland, R. D. 2 m 316 Bway.,  
Paterson, N. J.  
Wade, J. E. gr t  
372 Manhattan ave.  
Wadelton, T. D., Jr. 1 s  
Bronxville, N. Y.  
Wagstaff, A., Jr. sp c 116 and  
Riverside dr.  
Wainwright, J. M. B. 4 m  
340 W. 55

- Wakelee, M. J. 3 t  
 1230 Amsterdam ave.  
 Walbridge, D. H. 1 s 355 W. 20  
 Walcott, G. D. ph 41 E. 69  
 Waldron, J. L. 3 c  
 301 Tompkins ave., Bklyn.  
 Walker, A. S. B. 2 l  
 Walker, M. B. 1 b  
 434 Central pk., W.  
 Wall, J. P. 1 m 153 W. 63  
 Wallace, R. t 125 E. 24  
 Wallach, K. R. 3 c 53 E. 80  
 Wallach, S. W. 2 l 68 Ave. C  
 Wallenstein, C. A. 1 m  
 118 Harrison ave., Bklyn.  
 Walling, A. 2 t  
 35 Morningside ave.  
 Walling, L. G. 2 m 339 W. 55  
 Wallower, F. C. 3 s 415 W. 118  
 Walls, F. J. 2 s 415 W. 118  
 Wallstein, L. M. 1 l 538 W. 114  
 Walser, C. W. 4 m  
 New Brighton, S. I.  
 Walsh, J. J., Jr. 3 l 6 E. 93  
 Walter, J. C. 4 s  
 400 Manhattan ave.  
 Walther, J. W. sp c  
 431 Hopkins ave., Astoria, L. I.  
 Walz, A. 3 s 259 W. 112  
 Walz, J. 4 c 259 W. 112  
 Wang, Chung-Yu gr s 526 W. 123  
 Ward, A. H. 4 m 162 Preakness  
 ave., Paterson, N. J.  
 Ward, E., Jr. 1 s 134 W. 70  
 Ward, E. St. J. 4 m  
 288 Lexington ave.  
 Ward, F. E. 3 s 400 W. 124  
 Ward, R. F. 4 m  
 640 Madison ave.  
 Ward, W. 4 m  
 Wardell, L. M. 1 b 19 W. 84  
 Ware, G. H. 4 t  
 1230 Amsterdam ave.  
 Ware, J. C. p Allendale, N. J.  
 Waring, A. T. 4 b 301 W. 106  
 Warner, A. H. 3 s 419 W. 117  
 Warner, D. V. pl 175 Ninth ave.  
 Warner, E. H. 2 t 56 W. 33  
 Warr, F. L. pl 103 W. 86  
 Warren, A. D. 4 c 31 W. 12  
 Warth, A. H. 1 s 19 Smith ter.,  
 Stapleton, S. I.  
 Warwood, H. M. sp m 424 W. 57  
 Waterbury, A. 3 t  
 533 Manhattan ave.  
 Waterhouse, G. B. gr s  
 361 W. 123  
 Waterman, F. E. 2 s 202 W. 103  
 Waterman, W. 4 m 367 W. 113  
 Watkins, E. 2 m 318 W. 57  
 Watkins, S. S., Jr. 2 s  
 2762 Bway.  
 Watson, E. A. 2 b  
 Hackensack, N. J.  
 Watson, F. W. 4 s  
 1268 Amsterdam ave.  
 Watson, M. H. ph 96 Fifth ave.  
 Waugh, L. 2 t  
 929 Amsterdam ave.  
 Weathered, M. G. sp b 37 Madison  
 ave., Jersey City, N. J.  
 Weathers, N. A. 2 l 305 W. 112  
 Webb, C. R. 1 c  
 Webb, H. W. 3 c  
 Glen Ridge, N. J.  
 Webb, K. S. 2 c 248 W. 102  
 Webber, H. 1 t 1871 Madison ave.  
 Webber, J. P. ph 414 W. 118  
 Wechsler, J. Z. 2 l 87 Lenox ave.  
 Wechsler, L. A. 1 c 122 W. 85  
 Weed, E. G. ph 110 Clinton ave.,  
 Bklyn.  
 Weeks, E. F. 1 t 154 De Bevoise  
 ave., L. I. City  
 Weeks, M. F. ph 100 and  
 Riverside dr.  
 Weems, F. 3 t  
 1230 Amsterdam ave.  
 Wehn, E. A. sp c 348 W. 57  
 Wehrenberg, W. D. sp m  
 210 Lenox ave.  
 Weichsel, O. M. 4 s 519 W. 123  
 Weidman, E. I. 3 t 524 W. 123  
 Weil, J. 1 l 160 W. 95  
 Weil, J. 3 c 224 E. 60  
 Weil, P. L. 1 c 19 W. 70  
 Weingarten, F. S. 1 m 678 E. 140  
 Weinrich, M. F. 4 s 76 Ashbur-  
 ton ave., Yonkers, N. Y.  
 Weinstein, S. 2 l 369 Grand,  
 Bklyn.  
 Weinstock, L. 4 m  
 643 Lexington ave.  
 Weir, C. H. 4 m  
 Weiss, H. L. 2 s 25 W. 119  
 Weissman, C. 4 c 2 E. 80  
 Weisstraub, V. 1 s 25 Gouverneur  
 Weizenhoffer, A. 2 m 393 E. 8  
 Welch, C. G. sp b 444 Ovington  
 ave., Bay Ridge, N. Y.  
 Welch, K. A. 3 t 153 E. 62  
 Welch, P. R. 2 l 430 W. 118  
 Welle, E. 3 b 345 Straight,  
 Paterson, N. J.  
 Welles, F. C. 2 c 80 S. Clinton,  
 East Orange, N. J.



Wellington, G. A. *ph* 6 W. 48  
 Wells, F. E. 4 *t* 1230 Amsterdam ave.  
 Wells, F. L. *ph* 567 W. 113  
 Wells, M. A. 2 *b* 508 Park ave.,  
 East Orange, N. J.  
 Welsh, H. B. 4 *t* 144 W. 123  
 Wendt, C. *ph* Larchmont, N. Y.  
 Werner, G. B. 3 *s* 209 W. 97  
 Werner, L. A. 2 *s* 35 Mt. Morris pk., W.  
 Wertheim, L. 3 *m* 66 S. Ninth,  
 Bklyn.  
 Werts, H. E. 4 *b* 40 Danforth  
 ave., Jersey City, N. J.  
 West, H. J. 2 *s* 170 W. 85  
 West, W. B. *pl* Madison, N. J.  
 Westbrook, F. A. 3 *s* 175 Schermerhorn, Bklyn.  
 Westervelt, W. W., Jr. 2 *l* 33 Pine  
 Westover, R. R. 2 *m* 736 E. 23.  
 Paterson, N. J.  
 Wheat, A. J. *p* 521 W. 123  
 Wheat, B. P. 3 *l* 521 W. 123  
 Wheeler, B. *sp s* 604 W. 115  
 Wheeler, B. L. 3 *s* 419 W. 118  
 Wheeler, B. N. 3 *s* 415 W. 117  
 Wheeler, J. A. 4 *m* 60 W. 101  
 Wheeler, M. C. *sp t* 1230 Amsterdam ave.  
 Whicher, G. M. *ph* 68 Columbia  
 Hts., Bklyn.  
 Whiffen, E. T. *pl* 540 W. 126  
 Whitcomb, F. C. 4 *t* 321 W. 118  
 White, A. C. *ph* 560 Fifth ave.  
 White, C. 4 *t* 33 High,  
 Orange, N. J.  
 White, D. 3 *m* 64 W. 56  
 White, E. M. 2 *t* 47 Franklin,  
 Morristown, N. J.  
 White, G. W. *ph* Roselle, N. J.  
 White, H. L. *p* 128 W. 61  
 White, M. C. 4 *t* 136 Hawthorne  
 ave., Yonkers, N. Y.  
 White, M. M. 1 *b* 1230 Amsterdam ave.  
 White, R. P. 3 *m* 435 Fairmount  
 ave., Jersey City, N. J.  
 White, T. F., Jr. 1 *s* 34 Riverside dr.  
 Whiteside, D. G. *ph* 251 W. 133  
 Whitin, E. S. 3 *c* 94 Lawrence  
 Whitley, M. T. 3 *t* 459 W. 123  
 Whitlock, M. *gr t* 418 W. 118  
 Whitney, N. B. 3 *t* 125 Centre  
 ave., New Rochelle, N. Y.  
 Whiton, W. H. 4 *m* 2009 New-  
 kirk ave., Bklyn.

Whittemore, A. P. 3 *t* 8 Morningside ave.  
 Whittier, W. E. 4 *s* 453 W. 123  
 Whitwell, C. B. 1 *c* 37 W. 11  
 Wick, J. M. 4 *b* 414 W. 118  
 Wicke, C. 1 *c* 34 E. 68  
 Wieand, A. C. *gr t* 81 E. 55  
 Wiechers, H. 2 *s* 419 W. 118  
 Wiel, P. *sp s* 415 W. 118  
 Wiemann, A. B. 2 *c* 263 E. 78  
 Wien, F. *ph* 65 E. 93  
 Wiener, S. 4 *m* 1001 Madison ave.  
 Wiesner, L. A. 1 *b* 251 W. 100  
 Wiggin, J. D. 2 *s* 316 W. 115  
 Wiggin, R. H. 2 *s* 316 W. 115  
 Wilcomb, C. J. *gr t* 61 E. 91  
 Wilcox, E. D. *pl* Yonkers, N. Y.  
 Wilcox, H. L. 3 *b* Yonkers, N. Y.  
 Wilcox, S. H. 2 *s* 438 W. 116  
 Wilcox, W. 1 *t* 1230 Amsterdam ave.  
 Wile, M. G. 4 *c* 304 W. 89  
 Wilensky, A. O. 1 *m* 56 St. Mark's pl.  
 Wilkes, E. M. 1 *b* 153 Lenox ave.  
 Wilkinson, E. L. 4 *t* 500 W. 121  
 Willard, I. M. 3 *t* 135 Hamilton pl.  
 Willard, P. D. 2 *s*  
 Willcox, J. E. 4 *c* 439 Manhattan ave.  
 Willets, R. H. 2 *s* 500 W. 123  
 Willhöft, F. O. 4 *s* 362 W. 117  
 Williams, C. L. 2 *c* 417 W. 118  
 Williams, D. J. *pl* 314 E. 35  
 Williams, H. I. 2 *b* 1264 Boston rd.  
 Williams, I. A. *p* 11 E. 125  
 Williams, J. A. *ph* 371 W. 119  
 Williams, J. H. A. 1 *s* 176 W. 86  
 Williams, R. 1 *s* 430 W. 118  
 Williams, R. G. 1 *s* 319 S. First  
 ave., Mt. Vernon, N. Y.  
 Williams, R. T. 3 *s* 244 Purdy,  
 Long Island City, N. Y.  
 Williams, R. Y. 4 *s* 419 W. 118  
 Williams, S. W. *sp t* 85 E. 55  
 Williams, W. B. 2 *s* 262 Van  
 Horne, Jersey City, N. J.  
 Willing, M. S. 2 *l* 500 W. 121  
 Willis, H. T. *sp s* 430 W. 118  
 Willis, J. 1 *s* West New Brighton,  
 N. Y.  
 Willis, R. H. 2 *s* 220 E. 48  
 Willson, A. C. 1 *t* Noroton, Conn.  
 Wilson, F. H. 4 *m* 574 Madison,  
 Bklyn.



- Wilson, J. R. 3 m  
 Wilson, J. S. ph 449 W. 123  
 Wilson, R. C. 3 s 542 W. 114  
 Wilson, R. C. 4 c 102 W. 84  
 Wilson, S. K. ph 604 W. 114  
 Wilson, W. H. pl  
 268 Arlington ave., Bklyn.  
 Wilson, W. Le R. 3 s  
 316 W. 115  
 Winetraub, A. I. M. 3 s  
 22 E. 111  
 Wing, D. L. pl 85 and Bway.  
 Wingfield, H. B. 4 t  
 1230 Amsterdam ave.  
 Winslow, A. S. pl 68 W. 91  
 Wirén, M. ph  
 Wirén, O. B. 3 c  
 Wisansky, J. 3 m 236 E. Bway.  
 Wise, F. 4 m 238 E. 60  
 Wise, L. D. 4 m 11 W. 65  
 Wise, W. W. 1 s 281 W. 119  
 Withrow, W. E. 3 l 316 W. 115  
 Witt, A. W. 1 m 74 E. 105  
 Wittig, G. F. 4 s  
 Wolcott, F. H. p 231 W. 120  
 Wolf, J. I. 3 m 33 Essex  
 Wolf, L. I. ph 927 Park ave.  
 Wolf, L. J. 1 c 7 W. 91  
 Wolff, A. J. 2 l 71 E. 82  
 Wolff, G. Z. ph 130 E. 80  
 Wolff, J. 2 l Yonkers, N. Y.  
 Wolff, W. A. 3 s 56 W. 114  
 Wood, C., Jr. 3 c 38 E. 76  
 Wood, E. C. pl 36 E. 12  
 Wood, E. D. ph 58 W. 51  
 Wood, G. E. 2 t 61 E. 25  
 Wood, M. C. 4 t 61 E. 25  
 Wood, W. G. 2 m 61 E. 25  
 Woodard, C. A. sp c 3 May,  
 New Rochelle, N. Y.  
 Woodhull, M. ph 567 W. 113  
 Woodle, C. S. 3 t  
 1230 Amsterdam ave.  
 Woodman, S. P. 1 b 478 W. 159  
 Woodruff, I. M. 4 t  
 1230 Amsterdam ave.  
 Woodruff, I. O., Jr. 4 m  
 152 W. 78  
 Woodruff, M. 2 t 344 Gregory  
 ave., Passaic, N. J.  
 Woods, A. G. sp t 3136 Bway.  
 Woods, E. B. 1 m 143 W. 61  
 Woods, T. H., Jr. 2 m  
 46 So. Elliott pl., Bklyn.  
 Woods, W. A. E. 2 s 509 W. 124  
 Woodson, C. W. 4 m 202 W. 82  
 Woodward, O. F., Jr. 1 s  
 414 W. 118  
 Wooldridge, J. C. 2 m  
 129 W. 61  
 Woolf, H. 4 t  
 138 and Amsterdam ave.  
 Woollen, M. pl  
 163 St. Nicholas ave.  
 Woolley, J. S. 3 m 75 E. 79  
 Wormser, I. M. 1 c 19 W. 91  
 Wornack, M. D. p 509 W. 112  
 Worth, W. A. 3 t  
 2109 Amsterdam ave.  
 Worzel, H. H. 2 c 179 Fourth  
 ave., Bklyn.  
 Wright, C. pl 526 W. 114  
 Wright, E. H. 2 c 222 Bowery  
 Wright, F. S. 2 m  
 1 Mt. Morris pk., W.  
 Wright, H. W. 3 m 451 Morris  
 ave., Elizabeth, N. J.  
 Wright, M. J. 2 l 414 W. 118  
 Wuppermann, C. S. 1 c  
 309 W. 100  
 Wuppermann, R. K. 3 c  
 309 W. 100  
 Wyant, A. de L. 1 s 141 W. 85  
 Wyant, A. M. 4 t 332 W. 85  
 Wyatt, C. B. 1 l 28 E. 30  
 Wyckoff, C. J. 1 l 185 Penn,  
 Bklyn.  
 Wyld, R. H. 4 s 331 W. 83  
 Wylie, J. P. 1 l 160 W. 123  
 Wyman, M. L. 4 t 600 W. 125  
 Wynne, S. W. 4 m 148 E. 18  
 Yaggy, S. E. ph E. Moriches, N. Y.  
 Yale, D. I. 1 b 1230 Amsterdam  
 ave.  
 Yancey, G. W. 1 l 457 W. 123  
 Yatsu, N. p 463 Manhattan ave.  
 Yavroumis, G. 1 s  
 Yen, C. Y. pl 597 Bway.  
 York, H. J. 4 m 109 W. 63  
 Yoshioka, S. ph 700 Park ave.  
 Young, D. K., Jr. ph 521 W. 123  
 Young, E. V. 1 s ph 147 Amity,  
 Bklyn.  
 Young, L. J. 1 c 521 W. 123  
 Young, R. M. (Mrs.) 1 b  
 1554 Bway.  
 Younger, G. A. 3 c  
 W. New Brighton, N. Y.  
 Yudelson, S. 4 b 106 Eldridge  
 Zabriskie, G. E. 1 s 1201 Broad,  
 Newark, N. J.  
 Zaslaw, M. 4 s 30 Ridge  
 Zehe, E. J. (Mrs.) sp b  
 111 Kimballs rd., Bklyn.

Zeiger, F. <i>ph</i>	138 Park, Montclair, N. J.	Zilver, L. <i>1 c</i>	118 and Amsterdam ave.
Zeiger, G. V. <i>3 c</i>	420 W. 118	Zimmerman, H. <i>sp t</i>	1230 Amsterdam ave.
Zeiler, A. H. <i>3 m</i>	160 W. 19	Zimmerman, K. <i>4 t</i>	528 W. 123
Zeitlin, J. <i>3 c</i>	2101 Eighth ave.	Zinsler, J. J. <i>1 l</i>	16 W. 117
Zelaya, A. <i>1 m</i>	Jerome ave. and Division, Yonkers, N. Y.	Zollinghofer, S. <i>ph</i>	394 Vander- bilt ave., Bklyn.
Zelenko, D. <i>4 m</i>	773a Monroe, Bklyn.	Zons, F. W. <i>1 c</i>	206 Jackson ave., Long Island City, N. Y.
Zigler, M. <i>3 m</i>	189 Chambers		

## SUMMARY

### OFFICERS

Professors.....	94	
Adjunct Professors.....	40	
Clinical Professors and Lecturers.....	19	
Instructors.....	71	
Demonstrators.....	4	
Assistant Demonstrators.....	11	
Tutors.....	58	
Curators and Lecturers.....	33	
Assistants.....	45	
Clinical Assistants.....	79	
		<hr/>
OFFICERS OF INSTRUCTION.....	454	
OFFICERS OF ADMINISTRATION.....	15	
EMERITUS OFFICERS.....	10	
		<hr/>
TOTAL.....	479	
TEACHERS COLLEGE ( <i>not included above</i> ).....	106	
		<hr/>
GRAND TOTAL OF OFFICERS.....		585

### STUDENTS

COLUMBIA COLLEGE:		
Senior class.....	110	
Junior ".....	112	
Sophomore ".....	111	
Freshman ".....	119	
Special students.....	41	
		<hr/>
		493
The Faculty of Law:		
Third-year class.....	119	
Second-year ".....	149	
First-year ".....	104	
Special students.....	12	
		<hr/>
		384

## The Faculty of MEDICINE:

Fourth-year class.....	178	
Third-year ".....	191	
Second-year ".....	164	
First-year ".....	107	
Special students.....	29	669
	<hr/>	

## The Faculty of APPLIED SCIENCE:

Graduate students.....	9	
Fourth-year class.....	96	
Third-year ".....	132	
Second-year ".....	205	
First-year ".....	159	
Special students.....	36	637
	<hr/>	

## School of ARCHITECTURE:

Graduate students.....	4	
Fourth-year class.....	8	
Third-year ".....	14	
Second-year ".....	21	
First-year ".....	18	
Special students.....	17	82
	<hr/>	

The Graduate Faculties of POLITICAL SCIENCE,  
PHILOSOPHY, and PURE SCIENCE.....

620

TOTAL.....	2885
BARNARD COLLEGE.....	399
TEACHERS COLLEGE.....	624
AUDITORS.....	17

TOTAL.....	3925
<i>Deduct double Registration</i> <sup>1</sup> .....	189

NET TOTAL OF RESIDENT STUDENTS 3736

Summer Session Students, 1903.....	1001
<i>Deduct double Registration</i> <sup>2</sup> .....	180

GRAND TOTAL OF REGULAR STUDENTS.....	4557
EXTENSION STUDENTS, TEACHERS COLLEGE.....	732

Date, November 7, 1903

<sup>1</sup> Candidates for the higher degrees with Education as their major subject registered at Teachers College and in the Faculty of Philosophy.

<sup>2</sup> Students who returned for work during the academic year.



## ACADEMIC CALENDAR

- 1903—Sept. 23—Wednesday. First half-year, 150th year, begins.  
Registration ceases for students matriculating for the first time. Later applications received only upon payment of an additional fee of \$5.
- Oct. 14—Wednesday. Fellows and Scholars to report themselves as in residence to the Registrar.
- Oct. 24—Saturday. Last day for payment of first-term fees.
- Nov. 3—Tuesday. Election Day, holiday.
- Nov. 26—Thursday to
- Nov. 28—Saturday, inclusive. Thanksgiving Day holidays.
- Dec. 21—Monday to
- 1904—Jan. 2—Saturday, inclusive. Christmas holidays.
- Jan. 4—Monday. Exercises of the University resumed.
- Jan. 20—Wednesday. Mid-year examinations in Columbia College, Barnard College, and Teachers College begin.
- Jan. 30—Saturday. First half-year ends.
- Feb. 1—Monday. Second half-year begins.
- Feb. 10—Wednesday. Fellows and Scholars to report themselves as in residence to the Registrar.
- Feb. 20—Saturday. Last day for payment of second-term fees.
- Mar. 1—Tuesday. Last day for filing applications for University Fellowships.
- Mar. 31—Thursday to
- April 4—Monday, inclusive. Easter recess.
- April 2—Saturday. Last day for filing applications for examination for higher degrees.
- May 2—Monday. Last day for filing applications for University Scholarships, and for presenting essays for the degree of Master of Arts.
- May 18—Wednesday. Final examinations begin.
- May 30—Monday. Memorial Day, holiday.
- June 5—Sunday. Baccalaureate Sermon.
- June 6—Monday. Class Day.
- June 8—Wednesday. Commencement Day.
- June 20—Monday. Examinations of the College Entrance Examination Board begin.

- July 6—Wednesday. Fifth Summer Session opens.
- Aug. 17—Wednesday. Fifth Summer Session closes.
- Sept. 19—Monday. Entrance examinations, and examinations for deficient and debarred students, begin.
- Sept. 21—Wednesday. Registration begins.
- Sept. 27—Tuesday. Registration ceases for students previously matriculated. Later applications received only upon payment of an additional fee of \$5.
- Sept. 28—Wednesday. First half-year, 151st year, begins. Registration ceases for students matriculating for the first time. Later applications received only upon payment of an additional fee of \$5.



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